

NM1 - _30_

**MONITORING
REPORT**

YEAR(S):

2016-2017



Mr. Brad Jones
Oil Conservation Division
New Mexico Energy, Minerals and
Natural Resources Department
1220 S. St. Francis Drive
Santa Fe, NM 87505

2017-02-01

February 1, 2017

Mr. Brad Jones
Oil Conservation Division
New Mexico Energy, Minerals and
Natural Resources Department
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: 2016 Analytical Results, R360 Artesia, LLC Landfarm (NM1-30-0), Unit B (NW/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico

Mr. Jones:

The attached report is for our quarterly vadose soil samples collected at the R360 Artesia, LLC (formerly Artesia Aeration) Landfarm during the fourth quarter of 2016. You may contact me at (956) 458-0515 or by email at StephanieG@r360es.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie Garza".

Stephanie Garza
R360 Environmental Solutions, LLC

Attachments

FEBRUARY 1, 2017

**QUARTERLY TREATMENT AND VADOSE ZONE MONITORING REPORT
FOURTH QUARTER 2016 (DECEMBER 1, 2016)**

R360 Artesia LLC Landfarm

Township 17 South, Range 32 East, Unit A of Section 7
Maljamar, Lea County, New Mexico
Permit No. NM-1-30

Prepared for:



*507 N. MARIENFELD STREET
SUITE 200
MIDLAND, TEXAS 79701*

Prepared by:



A handwritten signature in black ink that reads "Gilbert J. Van Deventer".

Gilbert J. Van Deventer, PG

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2016 Fourth Quarter Treatment and Vadose Zone Monitoring Report
R360 Artesia, LLC Landfarm (NM-1-30)

1.0 INTRODUCTION

As agent for R360 Environmental Solutions (R360), Trident Environmental submits this *2016 Fourth Quarter Treatment and Vadose Zone Monitoring Report* for the R360 Artesia, LLC Landfarm (landfarm). Pursuant to 19.15.9.711 NMAC, the New Mexico Oil Conservation Division (OCD) issued permit number NM-1-30 to Artesia Aeration Landfarm on November 29, 1999, as a commercial surface waste management facility for treating exempt oil field waste which consists predominantly of petroleum hydrocarbon-impacted soil and drill cuttings. R360 acquired the landfarm in April 2011 and has not accepted new material since that time. The landfarm occupies approximately 48.4 acres in Unit A (NE/4, NE/4) of Section 7, Township 17 South, Range 32 East, Lea County, New Mexico, as depicted on the Site Location Map (Figure 1). The landfarm is divided into 6 cells (cell 1 through cell 6) ranging in size from about 2.74 acres (cell 1) to 13.28 acres (cell 6). Figure 2 is a Site Map depicting locations of the vadose zone samples collected during the fourth (4th) quarter of 2016.

2.0 MONITORING PROGRAM

Samples are no longer collected from cell 6 since the treatment zone soil overlying the perched water zone was removed from cell 6 and the southwest corner of cell 5 and placed as an additional lift on cells 1, 3 and 4 in 2015. Also, treatment zone samples are no longer collected from Cell 2 since no additional soil was added to the cell after OCD granted approval for adding another lift of contaminated soil on March 23, 2015. On November 21, 2016, Jim Griswold granted approval to R360's request for additional lifts in cells 1, 3, and 4.

As approved by OCD, treatment zone samples were not collected during the 4th quarter sampling event since they are only required on a semi-annual basis. During each of the three previous quarters during 2016, treatment zone samples were collected.

3.0 SOIL SAMPLING PROCEDURES

Treatment zone samples are collected from an approximate depth of 1 foot into the treatment (tilled) zone at cells 1, 3, 4 and 5 using a stainless steel trowel. Treatment zone sample aliquots from four discrete locations are composited as a single sample and immediately placed in pre-cleaned 4-ounce containers, properly labeled, and placed in a cooler with ice.

Vadose zone samples are collected from cells 1 through 5 approximately 2 to 3 feet below native ground surface. The samples are collected with a hand trowel after a backhoe temporarily excavates the overlying treatment zone soil from each location. The samples are then placed in 4-ounce glass containers, properly labeled, and placed in a cooler with ice, while the removed treatment zone soils are returned back in to the temporary excavation with the backhoe.

**2016 Fourth Quarter Treatment and Vadose Zone Monitoring Report
R360 Artesia, LLC Landfarm (NM-1-30)**

The locations of all samples are recorded with a Garmin™ handheld GPS receiver. Soil samples are delivered to the laboratory under chain of custody the same or next day for analysis of benzene, BTEX (sum of benzene, toluene, ethylbenzene and xylene), TPH (total petroleum hydrocarbons), and chloride using EPA SW-846 Methods 8021B, 8015, and 300, respectively. As approved by OCD, TRPH method 418.1 is not required under the condition that the TPH-8015 extraction method extends from the Carbon-6 to Carbon-35 range to include all GRO (gas range organics), DRO (diesel range organics), and ORO (oil range organics) fractions of TPH.

Analysis was performed by Permian Basin Environmental Lab (Midland TX) for the 4th quarter. PBEL is accredited under the National Environmental Laboratory Accreditation Program (NELAP).

4.0 TREATMENT (TILLED) ZONE SOIL SAMPLE ANALYTICAL RESULTS

The treatment zone soil sample analytical results are compared to the closure performance standards or additional lift requests as specified in NMAC 19.15.36.15(F) as follows:

- (1) Benzene not to exceed 0.2 mg/kg,
- (2) Total BTEX not to exceed 50 mg/kg,
- (3) The GRO, DRO and ORO combined fractions (TPH) not to exceed 500 mg/kg,
- (4) TRPH not to exceed 2,500 mg/kg, and
- (5) Chloride not to exceed 1,000 mg/kg

Treatment zone samples were not collected during the 4th quarter sampling event since they are only required on a semi-annual basis. As of the most recent treatment zone sampling event (3rd quarter), the benzene, BTEX, TPH, TRPH, and chloride concentrations in the treatment zone were below the above-referenced closure performance standards for all cells, with the exception of minimal exceedences of TPH (744 mg/kg) and chloride (1,120 mg/kg) in Cell 5.

5.0 VADOSE ZONE SOIL SAMPLE ANALYTICAL RESULTS

Vadose samples were collected at 2 - 3 feet below native ground surface in cells 1 through 5 during the 4th quarter sampling event. Vadose zone monitoring results are compared to the analytical method reporting limit (RL) or background soil concentrations (whichever is higher) in order to determine if a release had occurred and if additional follow-up actions of 19.15.36.15.E.(5) NMAC are required. The RL is equivalent to the practical quantitation limit (PQL) in Rule 36. Laboratory reports are included in Attachment A.

2016 Fourth Quarter Treatment and Vadose Zone Monitoring Report
R360 Artesia, LLC Landfarm (NM-1-30)

As summarized in Table 1, benzene, BTEX and TPH concentrations in the vadose zone samples for each sampled cell during the 4th quarter sampling event are comparable to background levels and were less than the RL (PQL) for each constituent, indicating there is no migration of benzene, BTEX and TPH to the vadose zone.

Chloride concentrations within the vadose zone during the most recent (4th quarter) sampling event were 411 mg/kg in cell 1, less than 1.06 mg/kg in cells 2 and 3, 15.7 mg/kg in cell 4, and 6.72 mg/kg in cell 5 (Table 1).

6.0 CONCLUSIONS

Treatment zone samples were not collected during the 4th quarter sampling event since they are only required on a semi-annual frequency. As of the most recent treatment zone sampling event (3rd quarter), the benzene, BTEX, TPH, TRPH, and chloride concentrations in the treatment zone did not exceed closure performance standards for all cells, with the exception of minimal exceedences of TPH (744 mg/kg) and chloride (1,120 mg/kg) in Cell 5.

During the 4th quarter sampling event on December 1, 2016, benzene, BTEX, TPH, and chloride concentrations in the vadose zone samples were less than the RL (PQL) or background soil concentrations with the exception of chloride in cell 1 (411 mg/kg), cell 4 (15.7 mg/kg), and cell 5 (6.72 mg/kg).

Although chloride concentrations in the vadose zone of cells 1, 4, and 5 exceed the higher of the RL (PQL) or background soil concentration, they are well below concentrations considered protective of groundwater which is greater than 100 ft below ground surface. Even so, it is understood that R360 will collect and analyze a minimum of four randomly selected, independent samples for TPH, BTEX, chlorides and the constituents listed in Subsections A and B of 20.6.2.3103 NMAC in cells 1, 4, and 5, which will be followed by submission of a response action plan to the OCD that addresses changes in the landfarm operations to mitigate any potential threat to groundwater conditions.

R360 continues tilling operations in cells 1, 2, 3, 4, and 5 to promote volatilization and microbial degradation of hydrocarbons in the treatment zone. R360 will notify OCD District 1 and Santa Fe offices at least 24 hours prior to collecting samples during the first quarter in 2017.

TABLES

Table 1
Summary of 4th Quarter Treatment and Vadose Zone Soil Sample Analytical Results
R360 Artesia LLC Landfarm (NM-1-30), Lea County, New Mexico

| Cell | Date | Zone | Depth (ft) | Benzene (mg/kg) | BTEX (mg/kg) | GRO (mg/kg) | DRO (mg/kg) | ORO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) | | |
|---------------------------------------|----------|------------------|------------|-----------------|--------------|-------------|-------------|-------------|-------------|------------------|--|--|
| 1 | 12/01/16 | Treatment Vadose | 0 - 1 | * | * | * | * | * | * | * | | |
| | | | 2 - 3 | <0.001 | <0.007 | <10.6 | <10.6 | <10.6 | <10.6 | 411 | | |
| 2 | 12/01/16 | Treatment Vadose | 0 - 1 | * | * | * | * | * | * | * | | |
| | | | 2 - 3 | <0.001 | <0.007 | <10.1 | <10.1 | <10.1 | <10.1 | <1.06 | | |
| 3 | 12/01/16 | Treatment Vadose | 0 - 1 | * | * | * | * | * | * | * | | |
| | | | 2 - 3 | <0.001 | <0.007 | <10.0 | <10.0 | <10.0 | <10.0 | <1.05 | | |
| 4 | 12/01/16 | Treatment Vadose | 0 - 1 | * | * | * | * | * | * | * | | |
| | | | 2 - 3 | <0.001 | <0.007 | <9.90 | <9.90 | <9.90 | <9.90 | 15.7 | | |
| 5 | 12/01/16 | Treatment Vadose | 0 - 1 | * | * | * | * | * | * | * | | |
| | | | 2 - 3 | <0.001 | <0.007 | <10.1 | <10.1 | <10.1 | <10.1 | 6.72 | | |
| 6 | 12/01/16 | Treatment Vadose | 0 - 1 | ** | ** | ** | ** | ** | ** | ** | | |
| | | | 2 - 3 | ** | ** | ** | ** | ** | ** | ** | | |
| Closure Performance Standards: | | | | 0.2 | 50 | — | — | — | 500 | 1,000 | | |
| Background (Mean): | | | | <0.001 | <0.007 | — | — | — | — | <5.04 | | |
| Reporting Limit (RL and PQL): | | | | 0.005 | 0.015 | 10.6 | 10.6 | 10.6 | 10.6 | 5.04 | | |

Notes: Analysis performed by Permian Basin Environmental Lab (Midland TX)

EPA SW-846 methods 8021B (BTEX), 8015M (GRO, DRO, and ORO), and 300.0 (chloride).

Depth listed in feet below native ground surface. Concentrations reported in units of milligrams per kilogram (mg/kg).

* Treatment zone samples not collected (only required semi-annually).

** Soil removed from Cell 6 and placed as additional layer on Cells 1, 3 and 4.

<: Less than the reporting limit (RL) which is the equivalent to the Practical Quantitation Limit (PQL)

Analyte is reported higher than the RL (PQL) or background concentration.

FIGURES



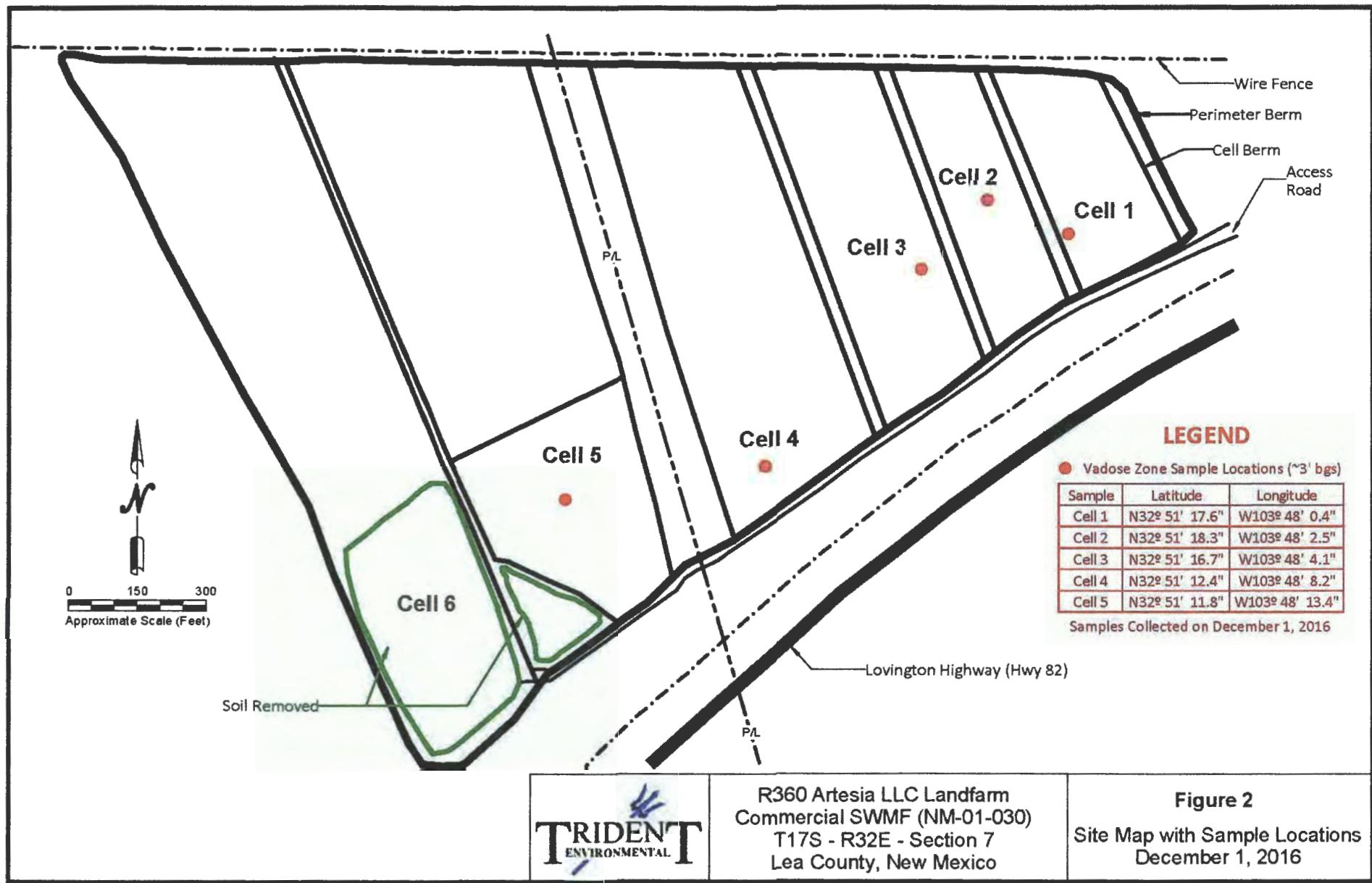
Google Earth

miles
km



R360 Artesia LLC Landfarm
Unit A, Sec 7, T17S, R32E,
Lea County, NM
N 32° 51' 17"
W 103° 47' 57"

Figure 1
Site Location Map



ATTACHMENT A

Laboratory Analytical Reports and Chains of Custody

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**

PBELAB

Analytical Report

Prepared for:

Gilbert Vandeventer
Trident Environmental
P.O. Box 12177
Odessa, TX 79768

Project: R360 Artesia Landfarm

Project Number: V-259

Location: T17S R32E Sec 7 Unit B , Lea County NM

Lab Order Number: 6L02001



NELAP/TCEQ # T104704156-16-6

Report Date: 01/12/17

Trident Environmental
P.O. Box 12177
Odessa TX, 79768

Project: R360 Artesia Landfarm
Project Number: V-259
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|----------------|------------------|
| Cell 1 (3') | 6L02001-01 | Soil | 12/01/16 11:30 | 12-02-2016 09:05 |
| Cell 2 (3') | 6L02001-02 | Soil | 12/01/16 10:00 | 12-02-2016 09:05 |
| Cell 3 (3') | 6L02001-03 | Soil | 12/01/16 11:50 | 12-02-2016 09:05 |
| Cell 4 (3') | 6L02001-04 | Soil | 12/01/16 12:30 | 12-02-2016 09:05 |
| Cell 5 (3') | 6L02001-05 | Soil | 12/01/16 13:00 | 12-02-2016 09:05 |

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Cell 1 (3')

6L02001-01 (Soil)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Organics by GC

| | | | | | | | | | |
|--|----|---------|-----------|---|---------|----------|----------|-----------|--|
| Benzene | ND | 0.00111 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Toluene | ND | 0.00222 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Ethylbenzene | ND | 0.00111 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00222 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Xylene (o) | ND | 0.00111 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 101 % | 75-125 | | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| <i>Surrogate: 1,4-Difluorobenzene</i> | | 95.7 % | 75-125 | | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | | |
|-------------------|-------------|------|-----------|---|---------|----------|----------|---------------|--|
| Chloride | 411 | 1.11 | mg/kg dry | 1 | P6L0601 | 12/06/16 | 12/07/16 | EPA 300.0 | |
| % Moisture | 10.0 | 0.1 | % | 1 | P6L0501 | 12/05/16 | 12/05/16 | % calculation | |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|------------------------------------|----|--------|-----------|---|---------|----------|----------|-----------|-------|
| C6-C12 | ND | 10.6 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| >C12-C28 | ND | 10.6 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| >C28-C35 | ND | 10.6 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| <i>Surrogate: 1-Chlorooctane</i> | | 74.5 % | 70-130 | | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | |
| <i>Surrogate: o-Terphenyl</i> | | 80.4 % | 70-130 | | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | ND | 10.6 | mg/kg dry | 1 | [CALC] | 12/05/16 | 12/05/16 | calc | |

Trident Environmental
P.O. Box 12177
Odessa TX, 79768

Project: R360 Artesia Landfarm
Project Number: V-259
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

Cell 2 (3')

6L02001-02 (Soil)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Organics by GC

| | | | | | | | | | |
|--|----|---------|-----------|--------|---------|----------|----------|-----------|-----------|
| Benzene | ND | 0.00106 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Toluene | ND | 0.00213 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Ethylbenzene | ND | 0.00106 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00213 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Xylene (o) | ND | 0.00106 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 97.0 % | | 75-125 | | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B |
| <i>Surrogate: 1,4-Difluorobenzene</i> | | 95.3 % | | 75-125 | | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B |

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | | |
|------------|-----|------|-----------|---|---------|----------|----------|---------------|--|
| Chloride | ND | 1.06 | mg/kg dry | 1 | P6L0601 | 12/06/16 | 12/07/16 | EPA 300.0 | |
| % Moisture | 6.0 | 0.1 | % | 1 | P6L0501 | 12/05/16 | 12/05/16 | % calculation | |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|------------------------------------|----|--------|-----------|--------|---------|----------|----------|-----------|-----------|
| C6-C12 | ND | 10.1 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| >C12-C28 | ND | 10.1 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| >C28-C35 | ND | 10.1 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| <i>Surrogate: 1-Chlorooctane</i> | | 70.2 % | | 70-130 | | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M |
| <i>Surrogate: o-Terphenyl</i> | | 78.0 % | | 70-130 | | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M |
| Total Petroleum Hydrocarbon C6-C35 | ND | 10.1 | mg/kg dry | 1 | [CALC] | 12/05/16 | 12/05/16 | calc | |

Trident Environmental
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Project: R360 Artesia Landfarm
Project Number: V-259
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

Cell 3 (3')

6L02001-03 (Soil)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Organics by GC

| | | | | | | | | | |
|--|----|---------|-----------|---|---------|----------|----------|-----------|--|
| Benzene | ND | 0.00105 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Toluene | ND | 0.00211 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Ethylbenzene | ND | 0.00105 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00211 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Xylene (o) | ND | 0.00105 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| <i>Surrogate: 1,4-Difluorobenzene</i> | | 96.1 % | 75-125 | | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 93.5 % | 75-125 | | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | | |
|------------|-----|------|-----------|---|---------|----------|----------|---------------|--|
| Chloride | ND | 1.05 | mg/kg dry | 1 | P6L0601 | 12/06/16 | 12/07/16 | EPA 300.0 | |
| % Moisture | 5.0 | 0.1 | % | 1 | P6L0501 | 12/05/16 | 12/05/16 | % calculation | |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|------------------------------------|----|--------|-----------|---|---------|----------|----------|-----------|-------|
| C6-C12 | ND | 10.0 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| >C12-C28 | ND | 10.0 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| >C28-C35 | ND | 10.0 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| <i>Surrogate: 1-Chlorooctane</i> | | 70.7 % | 70-130 | | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | |
| <i>Surrogate: o-Terphenyl</i> | | 78.0 % | 70-130 | | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | ND | 10.0 | mg/kg dry | 1 | [CALC] | 12/05/16 | 12/05/16 | calc | |

Trident Environmental
P.O. Box 12177
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Project: R360 Artesia Landfarm
Project Number: V-259
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

Cell 4 (3')

6L02001-04 (Soil)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Organics by GC

| | | | | | | | | | |
|---------------------------------|----|---------|-----------|--------|---------|----------|----------|-----------|-----------|
| Benzene | ND | 0.00104 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Toluene | ND | 0.00208 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Ethylbenzene | ND | 0.00104 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00208 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Xylene (o) | ND | 0.00104 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 95.8 % | | 75-125 | | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B |
| Surrogate: 4-Bromofluorobenzene | | 103 % | | 75-125 | | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B |

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | | |
|------------|------|------|-----------|---|---------|----------|----------|---------------|--|
| Chloride | 15.7 | 1.04 | mg/kg dry | 1 | P6L0601 | 12/06/16 | 12/07/16 | EPA 300.0 | |
| % Moisture | 4.0 | 0.1 | % | 1 | P6L0501 | 12/05/16 | 12/05/16 | % calculation | |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|------------------------------------|----|--------|-----------|--------|---------|----------|----------|-----------|-----------|
| C6-C12 | ND | 9.90 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| >C12-C28 | ND | 9.90 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| >C28-C35 | ND | 9.90 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| Surrogate: 1-Chlorooctane | | 71.3 % | | 70-130 | | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M |
| Surrogate: o-Terphenyl | | 76.8 % | | 70-130 | | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M |
| Total Petroleum Hydrocarbon C6-C35 | ND | 9.90 | mg/kg dry | 1 | [CALC] | 12/05/16 | 12/05/16 | calc | |

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Project Number: V-259
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

Cell 5 (3')

6L02001-05 (Soil)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Organics by GC

| | | | | | | | | | |
|--|----|---------|-----------|--------|---------|----------|----------|-----------|-----------|
| Benzene | ND | 0.00106 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Toluene | ND | 0.00213 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Ethylbenzene | ND | 0.00106 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00213 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| Xylene (o) | ND | 0.00106 | mg/kg dry | 1 | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 94.9 % | | 75-125 | | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B |
| <i>Surrogate: 1,4-Difluorobenzene</i> | | 94.9 % | | 75-125 | | P6L0502 | 12/05/16 | 12/05/16 | EPA 8021B |

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | | |
|------------|------|------|-----------|---|---------|----------|----------|---------------|--|
| Chloride | 6.72 | 1.06 | mg/kg dry | 1 | P6L0601 | 12/06/16 | 12/07/16 | EPA 300.0 | |
| % Moisture | 6.0 | 0.1 | % | 1 | P6L0501 | 12/05/16 | 12/05/16 | % calculation | |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|------------------------------------|----|--------|-----------|--------|---------|----------|----------|-----------|-----------|
| C6-C12 | ND | 10.1 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| >C12-C28 | ND | 10.1 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| >C28-C35 | ND | 10.1 | mg/kg dry | 1 | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M | SQL-1 |
| <i>Surrogate: 1-Chlorooctane</i> | | 73.6 % | | 70-130 | | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M |
| <i>Surrogate: o-Terphenyl</i> | | 74.0 % | | 70-130 | | P6L0508 | 12/05/16 | 12/05/16 | TPH 8015M |
| Total Petroleum Hydrocarbon C6-C35 | ND | 10.1 | mg/kg dry | 1 | [CALC] | 12/05/16 | 12/05/16 | calc | |

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Project Manager: Gilbert Vandeventer

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch P6L0502 - General Preparation (GC)

| Blank (P6L0502-BLK1) | | | | | | | | | | |
|---------------------------------|--------|-------------------------------|-----------|--------|------|--------|--|--|--|--|
| | | Prepared & Analyzed: 12/05/16 | | | | | | | | |
| Benzene | ND | 0.00100 | mg/kg wet | | | | | | | |
| Toluene | ND | 0.00200 | " | | | | | | | |
| Ethylbenzene | ND | 0.00100 | " | | | | | | | |
| Xylene (p/m) | ND | 0.00200 | " | | | | | | | |
| Xylene (o) | ND | 0.00100 | " | | | | | | | |
| Surrogate: 1,4-Difluorobenzene | 0.0593 | | " | 0.0600 | 98.9 | 75-125 | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0600 | | " | 0.0600 | 100 | 75-125 | | | | |

LCS (P6L0502-BS1)

| LCS (P6L0502-BS1) | | | | | | |
|---------------------------------|-------------------------------|---------|-----------|--------|------|--------|
| | Prepared & Analyzed: 12/05/16 | | | | | |
| Benzene | 0.0883 | 0.00100 | mg/kg wet | 0.100 | 88.3 | 70-130 |
| Toluene | 0.0902 | 0.00200 | " | 0.100 | 90.2 | 70-130 |
| Ethylbenzene | 0.105 | 0.00100 | " | 0.100 | 105 | 70-130 |
| Xylene (p/m) | 0.193 | 0.00200 | " | 0.200 | 96.3 | 70-130 |
| Xylene (o) | 0.0949 | 0.00100 | " | 0.100 | 94.9 | 70-130 |
| Surrogate: 1,4-Difluorobenzene | 0.0619 | | " | 0.0600 | 103 | 75-125 |
| Surrogate: 4-Bromofluorobenzene | 0.0658 | | " | 0.0600 | 110 | 75-125 |

LCS Dup (P6L0502-BSD1)

| LCS Dup (P6L0502-BSD1) | | | | | | |
|---------------------------------|-------------------------------|---------|-----------|--------|------|--------|
| | Prepared & Analyzed: 12/05/16 | | | | | |
| Benzene | 0.0857 | 0.00100 | mg/kg wet | 0.100 | 85.7 | 70-130 |
| Toluene | 0.0906 | 0.00200 | " | 0.100 | 90.6 | 70-130 |
| Ethylbenzene | 0.107 | 0.00100 | " | 0.100 | 107 | 70-130 |
| Xylene (p/m) | 0.189 | 0.00200 | " | 0.200 | 94.5 | 70-130 |
| Xylene (o) | 0.0933 | 0.00100 | " | 0.100 | 93.3 | 70-130 |
| Surrogate: 1,4-Difluorobenzene | 0.0609 | | " | 0.0600 | 102 | 75-125 |
| Surrogate: 4-Bromofluorobenzene | 0.0635 | | " | 0.0600 | 106 | 75-125 |

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Project Number: V-259
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|---------|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|---------|-----------|-------|

Batch P6L0501 - * DEFAULT PREP *****

| Blank (P6L0501-BLK1) | | | Prepared & Analyzed: 12/05/16 | | | | | | | |
|--------------------------|-----|-----|--|--|------|--|--|------|----|--|
| % Moisture | ND | 0.1 | % | | | | | | | |
| Duplicate (P6L0501-DUP1) | | | Source: 6L02002-21 Prepared & Analyzed: 12/05/16 | | | | | | | |
| % Moisture | 8.0 | 0.1 | % | | 12.0 | | | 40.0 | 20 | |

Batch P6L0601 - * DEFAULT PREP *****

| Blank (P6L0601-BLK1) | | | Prepared: 12/06/16 Analyzed: 12/07/16 | | | | | | | |
|----------------------------|------|------|--|------|------|------|--------|-------|----|--|
| Chloride | ND | 1.00 | mg/kg wet | | | | | | | |
| LCS (P6L0601-BS1) | | | Prepared: 12/06/16 Analyzed: 12/07/16 | | | | | | | |
| Chloride | 412 | 1.00 | mg/kg wet | 400 | | 103 | 80-120 | | | |
| LCS Dup (P6L0601-BSD1) | | | Prepared: 12/06/16 Analyzed: 12/07/16 | | | | | | | |
| Chloride | 414 | 1.00 | mg/kg wet | 400 | | 103 | 80-120 | 0.453 | 20 | |
| Duplicate (P6L0601-DUP1) | | | Source: 6L01011-05 Prepared: 12/06/16 Analyzed: 12/07/16 | | | | | | | |
| Chloride | 2070 | 12.2 | mg/kg dry | | 2080 | | | 0.453 | 20 | |
| Duplicate (P6L0601-DUP2) | | | Source: 6L01014-10 Prepared: 12/06/16 Analyzed: 12/07/16 | | | | | | | |
| Chloride | 9.90 | 1.02 | mg/kg dry | | 9.43 | | | 4.86 | 20 | |
| Matrix Spike (P6L0601-MS1) | | | Source: 6L01011-05 Prepared: 12/06/16 Analyzed: 12/07/16 | | | | | | | |
| Chloride | 4360 | 12.2 | mg/kg dry | 2440 | 2080 | 93.6 | 80-120 | | | |

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Project: R360 Artesia Landfarm
Project Number: V-259
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|---------|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|---------|-----------|-------|

Batch P6L0508 - TX 1005

| Blank (P6L0508-BLK1) | | | | | | | | | | |
|--|------|------|-----------|------|------|------|--------|-------|----|-------|
| Prepared & Analyzed: 12/05/16 | | | | | | | | | | |
| C6-C12 | ND | 25.0 | mg/kg wet | | | | | | | SQL-1 |
| >C12-C28 | ND | 25.0 | " | | | | | | | SQL-1 |
| >C28-C35 | ND | 25.0 | " | | | | | | | SQL-1 |
| <i>Surrogate: 1-Chlorooctane</i> | 65.9 | | " | 80.0 | | 82.4 | 70-130 | | | |
| <i>Surrogate: o-Terphenyl</i> | 32.7 | | " | 40.0 | | 81.7 | 70-130 | | | |
| LCS (P6L0508-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 12/05/16 | | | | | | | | | | |
| C6-C12 | 1130 | 25.0 | mg/kg wet | 1000 | | 113 | 75-125 | | | |
| >C12-C28 | 1110 | 25.0 | " | 1000 | | 111 | 75-125 | | | |
| <i>Surrogate: 1-Chlorooctane</i> | 68.1 | | " | 100 | | 68.1 | 70-130 | | | S-GC |
| <i>Surrogate: o-Terphenyl</i> | 41.8 | | " | 50.0 | | 83.6 | 70-130 | | | |
| LCS Dup (P6L0508-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 12/05/16 | | | | | | | | | | |
| C6-C12 | 1020 | 25.0 | mg/kg wet | 1000 | | 102 | 75-125 | 9.97 | 20 | |
| >C12-C28 | 1070 | 25.0 | " | 1000 | | 107 | 75-125 | 3.96 | 20 | |
| <i>Surrogate: 1-Chlorooctane</i> | 110 | | " | 100 | | 110 | 70-130 | | | |
| <i>Surrogate: o-Terphenyl</i> | 40.6 | | " | 50.0 | | 81.1 | 70-130 | | | |
| Matrix Spike (P6L0508-MS1) | | | | | | | | | | |
| Source: 6L05001-05 Prepared & Analyzed: 12/05/16 | | | | | | | | | | |
| C6-C12 | 1270 | 28.4 | mg/kg dry | 1140 | ND | 112 | 75-125 | | | |
| >C12-C28 | 1330 | 28.4 | " | 1140 | 21.3 | 115 | 75-125 | | | |
| <i>Surrogate: 1-Chlorooctane</i> | 107 | | " | 114 | | 94.2 | 70-130 | | | |
| <i>Surrogate: o-Terphenyl</i> | 45.8 | | " | 56.8 | | 80.6 | 70-130 | | | |
| Matrix Spike Dup (P6L0508-MSD1) | | | | | | | | | | |
| Source: 6L05001-05 Prepared & Analyzed: 12/05/16 | | | | | | | | | | |
| C6-C12 | 1270 | 28.4 | mg/kg dry | 1140 | ND | 112 | 75-125 | 0.356 | 20 | |
| >C12-C28 | 1340 | 28.4 | " | 1140 | 21.3 | 116 | 75-125 | 0.744 | 20 | |
| <i>Surrogate: 1-Chlorooctane</i> | 109 | | " | 114 | | 96.2 | 70-130 | | | |
| <i>Surrogate: o-Terphenyl</i> | 44.2 | | " | 56.8 | | 77.8 | 70-130 | | | |

Trident Environmental
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Odessa TX, 79768

Project: R360 Artesia Landfarm
Project Number: V-259
Project Manager: Gilbert Vandeventer

Fax: (432) 413-9968

Notes and Definitions

| | |
|-------|---|
| SQL-1 | The reporting limit is based on the sample quantitation limit. |
| S-GC | Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate. |
| BULK | Samples received in Bulk soil containers |
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| LCS | Laboratory Control Spike |
| MS | Matrix Spike |
| Dup | Duplicate |

Report Approved By:  Date: 1/12/2017

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

6L02001

PREFACE

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 1 of 4

Permian Basin Environmental Lab, LP
1400 Rankin Hwy, Midland, Texas 79701
Phone: 432-661-4184

Chain of Custody No.: V-259-120116

Report Format: Standard TRRP NPDES

| Company Name: Trident Environmental | | Bill To: Trident Environmental | | PO# | | Analyze For: | | | | | | | | | | | | | | |
|--|-------------|--|--------------|----------------------|----------------------|---|-------------------|---------------------|------------------|-----|--------------------------------|--|---|--------|----------------------------|--------------|---------------|-------------------|-----------------------------|----------|
| Project Manager: Gil Van Deventer / Trident Environmental | | Address: (Street, City, Zip) PO Box 12177, Odessa TX 79768 | | | | | | | | | | | | | | | | | | |
| Address: (Street, City, Zip) PO Box 12177, Odessa TX 79768 | | Phone#: (432) 638-8740 | | Fax#: (413) 403-9968 | | | | | | | | | | | | | | | | |
| Phone #: Fax #: (432) 638-8740 (413) 403-9968 | | Client: R360 Environmental Solutions LLC | | | | | | | | | | | | | | | | | | |
| Project Name: R360 Artesia Landfarm | | Project #: V-259 | | | | | | | | | | | | | | | | | | |
| Project Location: T17S R32E Sec 7 Unit B, Lea County NM | | Sampler Name: | | | | | | | | | | | | | | | | | | |
| (Lab use only) | FIELD CODE | (Grab or C)amp | Sample Depth | Date Sampled | Time Sampled (24 hr) | Field Filtered | No. of Containers | Preservation Method | | | | | | Matrix | TPH by TX 1005 8015B 8015M | TPH by 418.1 | BTEX by 8021B | Chloride by 300.0 | Rush 24 48 72 (Please call) | Standard |
| | | | | | | | | Ice | HNO ₃ | HCl | H ₂ SO ₄ | NaOH | Na ₂ S ₂ O ₃ | | | | | | | |
| -01 | Cell 1 (3') | G | 3' | 12/01/16 | 1130 | 1 | X | | | | | | | | Soil | X | X X | | | |
| -02 | Cell 2 (3') | G | 3' | 12/01/16 | 1000 | 1 | X | | | | | | | | Soil | X | X X | | | |
| -03 | Cell 3 (3') | G | 3' | 12/01/16 | 1150 | 1 | X | | | | | | | | Soil | X | X X | | | |
| -04 | Cell 4 (3') | G | 3' | 12/01/16 | 1230 | 1 | X | | | | | | | | Soil | X | X X | | | |
| -05 | Cell 5 (3') | G | 3' | 12/01/16 | 1300 | 1 | X | | | | | | | | Soil | X | X X | | | |
| Relinquished by: <i>[Signature]</i> Date: 12/1/16 Time: 10:40 | | Received by: | | Date: Time: | | Laboratory Comments: | | | | | | Special Instructions: | | | | | | | | |
| Relinquished by: | | Received by: | | Date: Time: | | Sample Containers Intact? <input checked="" type="checkbox"/> N <input type="checkbox"/> Y N | | | | | | Please email lab report to: gil@trident-environmental.com and StephanieG@R360es.com | | | | | | | | |
| Relinquished by: | | Received by (Laboratory): <i>[Signature]</i> Date: 12/1/16 Time: 10:40 | | Date: Time: | | VOCs Free of Headspace? <input checked="" type="checkbox"/> N <input type="checkbox"/> Y N | | | | | | Labels on Container(s)? <input checked="" type="checkbox"/> N <input type="checkbox"/> N | | | | | | | | |
| Relinquished by: | | Received by: | | Date: Time: | | Custody Seals on Container(s)? <input checked="" type="checkbox"/> N <input type="checkbox"/> N | | | | | | Custody Seals on Cooler(s)? <input checked="" type="checkbox"/> N <input type="checkbox"/> N | | | | | | | | |
| Relinquished by: | | Received by (Laboratory): <i>[Signature]</i> Date: 12/1/16 Time: 10:40 | | Date: Time: | | Sample Delivery: Sampler UPS FedEx DHL Lone Star Temperature Upon Receipt: Received: Z °C Adjusted: °C Factor: N/A 4 | | | | | | | | | | | | | | |



October 27, 2016

Mr. Brad Jones
Oil Conservation Division
New Mexico Energy, Minerals and
Natural Resources Department
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: 2016 Analytical Results, R360 Artesia, LLC Landfarm (NM1-30-0), Unit B
(NW/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New
Mexico

Mr. Jones:

The enclosed data tables present laboratory results of treatment and vadose soil samples collected at the R360 Artesia, LLC (formerly Artesia Aeration) Landfarm during the third quarter of 2016. You may contact me at (956) 458-0515 or by email at StephanieG@r360es.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie Garza".

Stephanie Garza

R360 Environmental Solutions, LLC

Attachments

**QUARTERLY
TREATMENT AND VADOSE ZONE
MONITORING REPORT**

(September 20, 2016)

R360 Artesia LLC Landfarm

Lea County, New Mexico
Permit No. NM1-30-0

LAI Project No. 15-0121-01

October 21, 2016

Prepared for:

R360 Environmental Solutions, LLC
507 N. Marienfeld Street, Suite 200
Midland, Texas 79701

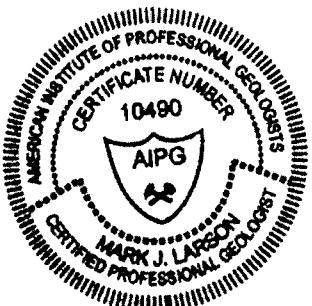
Prepared by:

Larson & Associates, Inc.

507 North Marienfeld Street, Suite 205
Midland, Texas 79701


Mark J. Larson, P.G.

Certified Professional Geologist #10490



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1.0 EXECUTIVE SUMMARY

This report presents the third (3rd) quarter 2016 treatment and vadose zone monitoring results for the R360 Artesia, LLC Landfarm (Site). The Site is permitted by the New Mexico Oil Conservation Division (OCD) as a commercial surface waste management facility (MN1-30-0) that uses six (6) cells (cells 1 through 6) ranging in size from about 2.74 acres (cell 1) to 13.28 acres (cell 6) for treating exempt oil field waste (i.e., soil and drill cuttings) contaminated predominately by petroleum hydrocarbons. The Site is located in Unit A (NE/4, NE/4), Section 7, Township 17 South and Range 32 East in Lea County, New Mexico. The geodetic position is north 32° 51' 171" and west 103° 47' 56.9".

On September 20, 2016, third (3rd) quarter samples were collected from about 1 foot into the treatment zone at cells 1, 3, 4 and 5. No soil has been added to the treatment zone in cell 2 since the OCD approved adding another lift of contaminated soil on March 23, 2015 therefore no treatment zone samples were collected from cell 2 during the third (3rd) quarter 2016. Vadose samples were collected between about 2 and 3 feet below native ground surface in cells 1 through 5 during the third (3rd) quarter 2016. Vadose samples were not collected from cell 6 since treated soil was removed from cell 6 and the southwest corner of cell 5 and placed as an additional lift on cells 1, 3 and 4 in 2015. The treatment and vadose zone samples were analyzed for BTEX (sum of benzene, toluene, ethylbenzene and xylene), TPH (total petroleum hydrocarbons), TRPH (total recoverable hydrocarbons) and chloride by EPA SW-846 Methods 8021B, 8015, 418.1 and 300, respectively.

The following conclusions are drawn from the third (3rd) quarter 2016 monitoring event:

- BTEX was below the analytical method RL and closure performance standards in treatment zone samples from cells 1 through 5 on September 20, 2016;
- TPH was below the closure performance standard (500 ppm) in treatment zone from cells 1, 3 and 4 on September 20, 2016;
- TPH exceeded the closure performance standard in treatment zone sample from cell 5 (744 mg/Kg) on September 20, 2016;
- BTEX, TPH and TRPH were below the analytical method RL in vadose zone samples from cells 1 through 5 on September 20, 2016;
- Chloride ranged from 6.68 mg/Kg (cell 3) to 289 mg/Kg (cell 5) in vadose samples and exceeded the mean background concentration (5.04 mg/Kg) on September 20, 2016.

R360 will continue monthly tilling of cell 1, 2, 3, 4, and 5 to promote volatilization and microbial degradation of hydrocarbons in the treatment zone. R360 will notify OCD District 1 and Santa Fe offices at least 24 hours prior to collecting samples during the fourth (4th) quarter 2016.

2.0 INTRODUCTION

This report has been prepared by Larson & Associates, Inc. (LAI) to present vadose and treatment zone monitoring results for the third (3rd) quarter of 2016 at the R360 Artesia, LLC (R360) Landfarm (Facility) located in Lea County, New Mexico. The Facility is permitted by the New Mexico Oil Conservation Division (OCD) as a commercial surface waste management facility (NM1-30-0) for treating exempt oil field waste (i.e., soil and drill cuttings) contaminated predominately by petroleum hydrocarbons.

The Facility is divided into 6 cells (cell 1 through cell 6) ranging in size from about 2.74 acres (cell 1) to 13.28 acres (cell 6). The Facility occupies approximately 48.4 acres in Unit A (NE/4, NE/4), Section 7, Township 17 South and Range 32 East in Lea County, New Mexico. The geodetic position is north 32° 51' 4.93" and west 103° 48' 15.45". Figure 1 presents a topographic map. Figure 2 presents an aerial map. Figure 3 presents a Facility drawing with locations of the third (3rd) quarter 2016 treatment and vadose zone samples. The OCD issued the permit under Rule 711 to Artesia Aeration Landfarm on November 29, 1999. R360 acquired the Facility in April 2011. R360 has not accepted new material since acquiring the Facility.

3.0 LANDFARM MONITORING

3.1 Treatment (Tilled) Zone Soil Samples

Per OCD permit requires a 4-part composite soil sample from the treatment zone. On September 20, 2016, LAI personnel collected samples from the treatment (tilled) zone in cells 1, 3, 4, and 5. Treatment zone samples were not collected from cell 2 during the third (3rd) quarter since no additional soil was added to the cell since OCD granted approval for adding another lift of contaminated soil on March 23, 2015. Treatment zone samples were collected between about 1 foot into the treatment (tilled) zone at cells 1, 3, 4 and 5 using a stainless steel trowel. Sample aliquots were immediately placed in pre-cleaned 4-ounce jars, properly labeled, and iced upon collection. The samples were shipped via LoneStar Overnight, under chain of custody to DHL Analytical, a National Analytical Laboratory Accreditation Program (NELAP) accredited laboratory located in Round Rock, Texas. The samples were analyzed for benzene, toluene, ethylbenzene and xylene (BTEX), total petroleum hydrocarbons (TPH), total recoverable petroleum hydrocarbons (TRPH) and chloride by EPA SW-846 Methods 8021B, 8015, 418.1 and 300, respectively. The locations for the 4 discrete sample locations were recorded with a Trimble® hand held GPS receiver. Table 1 presents the laboratory analytical data summary for the treatment zone samples. Figure 3 presents the sample locations. Appendix A presents the laboratory report.

3.1.1 Organic Sample Results

BTEX constituents were below the analytical method reporting limits (RL), equivalent to the practical quantitation limit (PQL) and closure performance standards in treatment zone samples from cells 1, 3, 4, and 5 on September 20, 2016.

TPH was below the closure performance standard of 500 milligrams per kilogram (mg/Kg) in treatment zone samples from cell 1 (15.4 mg/Kg), cell 3 (242 mg/Kg) and cell 4 (293 mg/Kg) on September 20,

2016. The closure performance standard for TPH was exceeded in treatment zone samples from cell 5 (744 mg/Kg) on September 20, 2016. TRPH was below the closure performance standard of 1,000 mg/Kg in treatment zone samples from cells 1, 3, 4 and 5 on September 20, 2016.

3.1.2 Chloride Sample Results

Chloride was below the closure performance standard (1,000 mg/kg) in the treatment zone from all cells except cell 5 (1,120 mg/kg) during the third (3rd) on September 20, 2016.

3.2 Vadose Zone Soil Samples

Vadose zone samples were collected from cell 1 through 5 approximately 2 to 3 feet below native ground surface. The samples were collected with a backhoe after removing contaminated (treatment zone) soil from each location. The samples were collected in 4-ounce glass containers that were labeled, chilled in an ice chest and delivered to DHL. The laboratory analyzed the samples by EPA SW-846 Method 8021B (BTEX), 8015 (TPH), 418.1 (TRPH) and 300 (chloride). The native soil was placed in the sample excavation prior to replacing the contaminated (treatment zone) soil. Each sample location was recorded with the Trimble® GPS receiver. Table 2 presents the laboratory analytical data summary for the vadose zone samples. Figure 3 presents the vadose zone sample locations. Appendix A presents the laboratory reports.

3.2.1 Organic Sample Results

BTEX, TPH and TRPH were below the analytical method RL in vadose samples from cell 1 through 5 on September 20, 2016.

3.2.2 Chloride Sample Results

Chloride in the vadose samples ranged from 6.68 mg/Kg (cell 3) to 289 mg/Kg (cell 5) and exceeded the mean background concentration (5.04 mg/Kg) on September 20, 2016.

4.0 CONCLUSIONS

- BTEX was below the analytical method RL and closure performance standards in treatment zone samples from cells 1 through 5 on September 20, 2016;
- TPH was below the closure performance standard (500 ppm) in treatment zone from cells 1, 3 and 4 on September 20, 2016;
- TPH exceeded the closure performance standard in treatment zone sample from cell 5 (744 mg/Kg) on September 20, 2016;
- BTEX, TPH and TRPH were below the analytical method RL in vadose zone samples from cells 1 through 5 on September 20, 2016;
- Chloride ranged from 6.68 mg/Kg (cell 3) to 289 mg/Kg (cell 5) in vadose samples and exceeded the mean background concentration (5.04 mg/Kg) on September 20, 2016.

R360 will continue monthly tilling of cell 1, 2, 3, 4, and 5 to promote volatilization and microbial degradation of hydrocarbons in the treatment zone. R360 will notify OCD District 1 and Santa Fe offices at least 24 hours prior to collecting samples during the fourth (4th) quarter 2016.

TABLES

Table 1
Treatment Zone Soil Analytical Data Summary
R360 Artesia LLC Landfarm (NM-1-030)
Lea County, New Mexico

| Cell | Date | Depth (feet) | Benzene (mg/Kg) | BTEX (mg/Kg) | GRO (mg/Kg) | DRO (mg/Kg) | ORO (mg/Kg) | TPH (mg/Kg) | TRPH (mg/Kg) | Chloride (mg/Kg) |
|------------------|--|-------------------------|----------------------------------|--------------------------------|----------------------------|--------------------|---------------------|---------------------|---------------------|-------------------------|
| Permitted Level: | | | 0.2 | 50 | | | | 500 | 2,500 | 1,000 |
| 1 | 03/16/2016 06/01/2016 09/20/2016 | 0 - 1 0 - 1 0 - 1 | <0.00472 <0.00496 <0.00543 | <0.0472 <0.0496 <0.05433 | <0.190 <0.180 <0.234 | 366 224 15.4 | 263 265 <11.6 | 629 489 15.4 | 836 252 15.1 | 356 397 302 |
| 2 | 03/16/2016 06/01/2016 09/20/2016 | 0 - 1 0 - 1 0 - 1 | * | * | * | * | * | * | * | * |
| 3 | 03/16/2016 06/01/2016 09/20/2016 | 0 - 1 0 - 1 0 - 1 | <0.00454 <0.00436 <0.00471 | <0.0454 <0.0436 <0.04701 | <0.192 <0.186 <0.183 | 273 147 136 | 235 118 106 | 508 265 242 | 644 291 102 | 177 334 112 |
| 4 | 03/16/2016 06/01/2016 09/20/2016 | 0 - 1 0 - 1 0 - 1 | <0.00451 <0.00483 <0.00465 | <0.0451 <0.0483 <0.04665 | <0.200 <0.192 <0.196 | 299 374 159 | 228 297 134 | 527 671 293 | 704 599 110 | 467 279 81.4 |
| 5 | 03/16/2016 06/01/2016 09/20/2016 | 0 - 1 0 - 1 0 - 1 | <0.00493 <0.00514 <0.00499 | <0.0493 <0.0514 <0.04999 | <0.186 <0.204 <0.199 | 737 467 422 | 669 447 322 | 1,406 914 744 | 2,080 498 357 | 2,100 4,630 1,120 |
| 6 | 03/16/2016 06/01/2016 09/20/2016 | 0 - 1 0 - 1 0 - 1 | ** ** ** | ** ** ** | ** ** ** | ** ** ** | ** ** ** | ** ** ** | ** ** ** | ** ** ** |

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, Texas by EPA SW-846 methods 8021B (BTEX), 8015M (GRO and DRO), 418.1 (TRPH) and 300.0 (chloride). Results are reported in milligram per Kilograms (mg/Kg) equivalent to parts per million (ppm).

Depth is feet within treated soil layer

*Cell approved for additional lift however no soil added to cell at the time of sample collection

**Soil removed from cell and placed as additional layer on Cells 1, 3 and 4

<: Analyte concentration less than method reporting limit (RL) equivalent to practical quantitation limit (PQL)

Analyte concentration exceeds closure performance standard

Table 2
Vadose Zone Soil BTEX and TPH Analytical Data Summary
R360 Artesia LLC Landfarm (NM-1-030)
Lea County, New Mexico

| Cell | Date | Depth (feet) | RL | Benzene (mg/Kg) | RL | Ethylbenzene (mg/Kg) | RL | Toluene (mg/Kg) | RL | Xylenes (mg/Kg) | RL | GRO (mg/Kg) | RL | DRO (mg/Kg) | RL | ORO (mg/Kg) | RL | TPH (mg/Kg) | RL | TRPH (mg/Kg) | RL | Chloride (mg/Kg) |
|---------------------------------|--|-------------------------|-------------------------------|----------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|----------------------------|-------------------------------|-------------------------|----------------------------|----------------------|-------------------------|----------------------|-------------------------------------|----------------------|-------------------------------------|----------------------|-------------------------------------|----------------------|---------------------|
| Background: Mean Concentration: | | | <0.00095 | | <0.00095 | | <0.00095 | | <0.00095 | | — | | — | | — | | — | | <4.90 | | <5.04 | |
| Background PQL or RL: | | | 0.0048 | | 0.0048 | | 0.0048 | | 0.0048 | | — | | — | | — | | — | | 9.78 | | 5.04 | |
| 1 | 03/16/2016 06/01/2016 09/20/2016 | 2 - 3 2 - 3 2 - 3 | 0.00483 0.00536 0.00518 | <0.00483 <0.00536 <0.00518 | 0.0145 0.0161 0.0155 | <0.0145 <0.0161 <0.0155 | 0.0145 0.0161 0.0155 | <0.0145 <0.0161 <0.0155 | 0.0145 0.0161 0.0155 | <0.0145 <0.0161 <0.0155 | 0.213 0.204 0.222 | <0.213 <0.204 <0.222 | 11.0 10.6 10.9 | 77.4 <10.6 <10.9 | 11.0 10.6 10.9 | 48.8 <10.6 <10.9 | 11.0 10.6 10.9 | 126.2 <10.6 <10.9 | 10.9 10.5 11.1 | 175 <10.5 <11.1 | 5.55 51.0 5.40 | 133 98.2 38.6 |
| 2 | 03/16/2016 06/01/2016 09/20/2016 | 2 - 3 2 - 3 2 - 3 | 0.00551 0.00558 0.00553 | <0.00551 <0.00558 <0.00553 | 0.0165 0.0167 0.0166 | <0.0165 <0.0167 <0.0166 | 0.0165 0.0167 0.0166 | <0.0165 <0.0167 <0.0166 | 0.0165 0.0167 0.0166 | <0.0165 <0.0167 <0.0166 | 0.237 0.226 0.223 | <0.237 <0.226 <0.223 | 11.8 10.9 10.9 | <11.8 <10.9 <10.9 | 11.8 10.9 10.9 | 4.49 ^j <10.9 <10.9 | 11.8 10.9 10.9 | 4.49 ^j <10.9 <10.9 | 12.2 11.0 11.0 | <12.2 <11.0 <11.0 | 5.74 54.5 55.3 | 14.4 328 331 |
| 3 | 03/16/2016 06/01/2016 09/20/2016 | 2 - 3 2 - 3 2 - 3 | 0.00479 0.00592 0.00547 | <0.00479 <0.00592 <0.00547 | 0.0144 0.0178 0.0164 | <0.0144 <0.0178 <0.0164 | 0.0144 0.0178 0.0164 | <0.0144 <0.0178 <0.0164 | 0.0144 0.0178 0.0164 | <0.0144 <0.0178 <0.0164 | 0.189 0.239 0.202 | <0.189 <0.239 <0.202 | 10.2 11.5 11.2 | 15.1 <11.5 <11.2 | 10.2 11.5 11.2 | 11.4 <11.5 <11.2 | 10.2 11.5 11.2 | 26.5 <11.5 <11.2 | 9.85 11.8 10.7 | 9.52 ^m <11.8 <10.7 | 5.01 54.4 5.26 | 21.4 567 6.68 |
| 4 | 03/16/2016 06/01/2016 09/20/2016 | 2 - 3 2 - 3 2 - 3 | 0.00540 0.00484 0.00573 | <0.00540 <0.00484 <0.00573 | 0.0162 0.0145 0.0172 | <0.0162 <0.0145 <0.0172 | 0.0162 0.0145 0.0172 | <0.0162 <0.0145 <0.0172 | 0.0162 0.0145 0.0172 | <0.0162 <0.0145 <0.0172 | 0.205 0.198 0.230 | <0.205 <0.198 <0.230 | 10.5 9.45 11.7 | 98.7 <9.45 <11.7 | 10.5 9.45 11.7 | 82.3 <9.45 <11.7 | 10.5 9.45 11.7 | 181 <9.45 <11.7 | 10.7 9.45 11.1 | 228 <9.95 <11.1 | 5.31 47.5 5.88 | 255 192 165 |
| 5 | 03/16/2016 06/01/2016 09/20/2016 | 2 - 3 2 - 3 2 - 3 | 0.00519 0.00497 0.00509 | <0.00519 <0.00497 <0.00509 | 0.0156 0.0149 0.0153 | <0.0156 <0.0149 <0.0153 | 0.0156 0.0149 0.0153 | <0.0156 <0.0149 <0.0153 | 0.0156 0.0149 0.0153 | <0.0156 <0.0149 <0.0153 | 0.223 0.203 0.225 | <0.223 <0.203 <0.225 | 11.0 10.2 10.7 | 203 <10.2 <10.7 | 11.0 10.2 10.7 | 107 <10.2 <10.7 | 11.0 10.2 10.7 | 310 <10.2 <10.7 | 10.9 10.7 11.0 | 287 <10.7 <11.0 | 529 47.2 48.4 | 3,120 882 289 |
| 6 | 03/16/2016 06/01/2016 09/20/2016 | 2 - 3 2 - 3 2 - 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | * | * | * | * | |

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX, Permian Bain Environmental Lab, Midland, TX and Trace Analysis, Inc., Lubbock, TX

BTEX by EPA SW-846 method 8021B (BTEX)

TPH by EPA SW 846 method 8015M (GRO and DRO)

TRPH by EPA SW-846 method 418.1

Results are reported in milligram per Kilograms (mg/kg).

RL: Reporting limit (equivalent to practical quantification limit (PQL))

1. <: Less than method reporting limit

2. Depth in feet below native ground surface

j: Analyte detected between MDL and RL

N: Parameter not NELAC certified

Analyte detected above reporting limit (RL) equivalent to practical quantitation limit (PQL)

Analyte reported above the mean background concentration

FIGURES

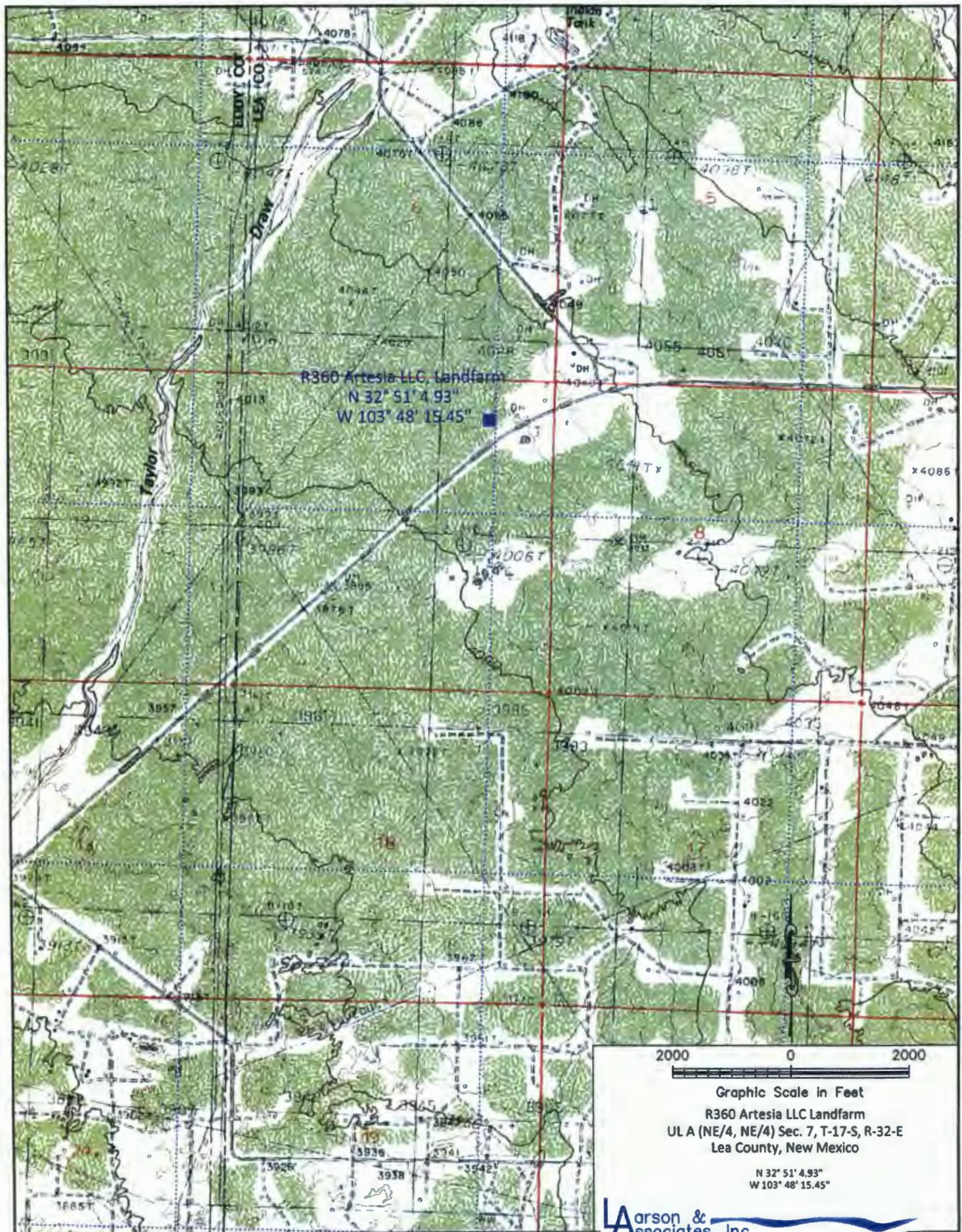


Figure 1 - Topographic Map



Figure 2 - Aerial Map

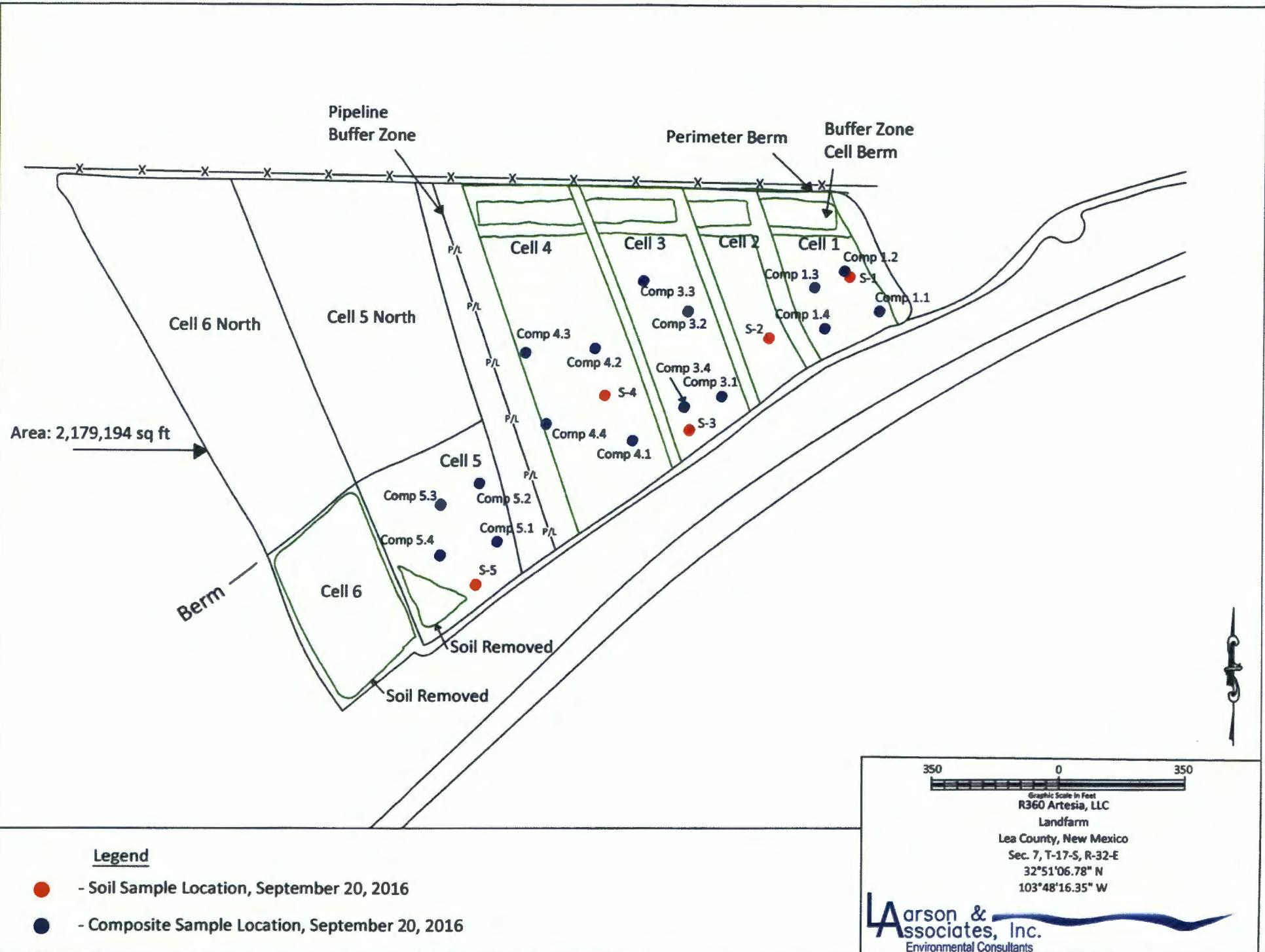


Figure 3 - Site Map Showing Sample Locations, September 20, 2016

APPENDIX A

Laboratory Report



September 30, 2016

Mark Larson
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456

Order No.: 1609206

RE: R360 Artesia Aeration Landfarm NM

Dear Mark Larson:

DHL Analytical, Inc. received 9 sample(s) on 9/22/2016 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-16-16



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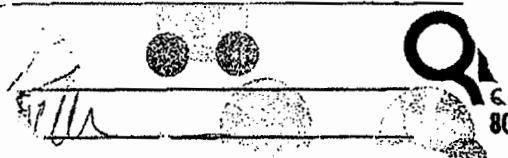
WWW.LSO.COM
Questions? Call 800-800-8984

Airbill No. 49614848

49614848

| | | | |
|--|-------|--|-------------------|
| 1. To: | | Print Name (Person) | Phone (Important) |
| | | J. Barker | (512) 325-3222 |
| Company Name | | | |
| DHL Analytical | | | |
| Street Address (No P.O. Box or P.O. Box Zip Code Delivered) | | | |
| 1230 Double Creek Drive | | | |
| Suite / Floor | | | |
| City | State | Zip | |
| Round Rock | TX | 786064 | |
| 3. Service: | | Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online. | |
| <input checked="" type="checkbox"/> LSO Priority Overnight* By 10:30 a.m. to most cities | | <input type="checkbox"/> LSO Ground <input type="checkbox"/> LSO Saturday* <input type="checkbox"/> Other _____ | |
| <input type="checkbox"/> LSO Early Overnight* By 8:30 a.m. select cities | | | |
| <input type="checkbox"/> LSO Economy Next Day* By 3 p.m. to most cities | | | |
| <input type="checkbox"/> LSO 2nd Day* | | Assumed LSO Priority Overnight service unless otherwise noted. | |
| <input type="checkbox"/> Deliver Without Delivery Signature (See Limits of Liability below) | | | |
| Release Signature _____ X W X H _____ | | | |
| 2. From: Print Name (Person) Phone (Important) Company Name PERSON & ASSOCIATES Street Address 401 PARKWOOD Suite / Floor 206 City State Zip WINTERBROOK TX 79701 4. Package: Weight: Your Company's Billing Reference Information Ship Date: (mm/dd/yy) 09/14/96 | | | |
| FOR DRIVER USE ONLY Driver Number _____ <input type="checkbox"/> Check here if LSO Supplies are used with LSO Ground Service. Pick-up Location _____ Date _____ Time _____ City Code: _____ | | | |
| 5. Payment: | | | |

LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not to exceed \$25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR LSO EARLY OVERNIGHT SERVICE. PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON LSO GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.



DHL Analytical, Inc.

Sample Receipt Checklist

Client Name Larson & Associates

Date Received: 9/22/2016

Work Order Number 1609206

Received by JT

Checklist completed by:


Signature

9/22/2016

Date

Reviewed by:


Initials

9/22/2016

Date

Carrier name LoneStar

| | | | |
|---|---|-----------------------------|--|
| Shipping container/coolier in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/coolier? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 1.1 °C |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH<2 acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> LOT # _____ |
| | Adjusted? _____ | Checked by _____ | |
| Water - ph>9 (S) or ph>12 (CN) acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> LOT # _____ |
| | Adjusted? _____ | Checked by _____ | |

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: Larson & Associates
Project: R360 Artesia Aeration Landfarm NM
Lab Order: 1609206

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method M8015D - DRO Analysis
Method M8015V - GRO Analysis
Method E418.1 - Total Recoverable Petroleum Hydrocarbons Analysis (This Parameter is not NELAC Certified)
Method SW8021B - Volatile Organics by GC Analysis
Method E300 - Anions Analysis
Method D2216 - Percent Moisture Analysis

LOG IN

The samples were received and log-in performed on 9/22/2016. A total of 9 samples were received and analyzed. The samples arrived in good condition and were properly packaged. The samples were collected in Mountain Standard Time.

VOLATILE ORGANICS BY GC AND GRO ANALYSIS

As per the TCEQ-NELAP accreditation requirement the following must be noted: NELAP requires a note that if 5035 sampling method for VOCs and GRO is not utilized, the results of samples collected in bulk containers for low level volatile components may be compromised and state environmental regulatory agencies will reject data if submitted for remediation projects. The client has been notified and has requested the Laboratory to proceed with analysis.

DRO ANALYSIS

For DRO Analysis, the recovery of surrogate Octacosane for three samples, the Matrix Spike and Matrix Spike Duplicate (1609206-01 MS/MSD) was above the method control limits. These are flagged accordingly in the Analytical Data Report and QC Summary Report. The remaining surrogate for these samples was within method control limits. No further corrective action was taken.

For DRO Analysis, the recoveries/RPD of the Matrix Spike and Matrix Spike Duplicate (1609206-01 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. The associated LCS was within method control limits. No further corrective action was taken.

TRPH ANALYSIS

For TRPH Analysis, the recoveries of the Matrix Spike and Matrix Spike Duplicate (1609206-09

CLIENT: Larson & Associates
Project: R360 Artesia Aeration Landfarm NM
Lab Order: 1609206

CASE NARRATIVE

MS/MSD) were above the method control limits. These are flagged accordingly in the QC Summary Report. The associated LCS was within method control limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: 30-Sep-16

CLIENT: Larson & Associates
Project: R360 Artesia Aeration Landfarm NM
Lab Order: 1609206

Work Order Sample Summary

| Lab Smp ID | Client Sample ID | Tag Number | Date Collected | Date Recvd |
|-------------------|-------------------------|-------------------|-----------------------|-------------------|
| 1609206-01 | Cell 5 Comp | | 09/20/16 10:45 AM | 9/22/2016 |
| 1609206-02 | Cell 4 Comp | | 09/20/16 11:00 AM | 9/22/2016 |
| 1609206-03 | Cell 3 Comp | | 09/20/16 11:05 AM | 9/22/2016 |
| 1609206-04 | Cell 1 Comp | | 09/20/16 11:15 AM | 9/22/2016 |
| 1609206-05 | Cell 1 (2-3) | | 09/20/16 12:15 PM | 9/22/2016 |
| 1609206-06 | Cell 2 (2-3) | | 09/20/16 12:30 PM | 9/22/2016 |
| 1609206-07 | Cell 3 (2-3) | | 09/20/16 12:45 PM | 9/22/2016 |
| 1609206-08 | Cell 4 (2-3) | | 09/20/16 01:05 PM | 9/22/2016 |
| 1609206-09 | Cell 5 (2-3) | | 09/20/16 01:30 PM | 9/22/2016 |

Lab Order:

1609206

Client:

Larson & Associates

Project:

R360 Artesia Aeration Landfarm N

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|------------------------------|-------------------|----------|
| 1609206-01A | Cell 5 Comp | 09/20/16 10:45 AM | Soil | E300 | Anion Prep | 09/27/16 10:21 AM | 77356 |
| | Cell 5 Comp | 09/20/16 10:45 AM | Soil | SW5030C | Purge and Trap Soils GC | 09/27/16 01:46 PM | 77360 |
| | Cell 5 Comp | 09/20/16 10:45 AM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 09/29/16 09:06 AM | 77377 |
| 1609206-01B | Cell 5 Comp | 09/20/16 10:45 AM | Soil | D2216 | Moisture Preparation | 09/27/16 03:54 PM | 77365 |
| | Cell 5 Comp | 09/20/16 10:45 AM | Soil | SW3550C | Soil Prep Sonication: DRO | 09/28/16 02:20 PM | 77373 |
| | Cell 5 Comp | 09/20/16 10:45 AM | Soil | SW3550C | Soil Prep Sonication: DRO | 09/28/16 02:20 PM | 77373 |
| 1609206-02A | Cell 4 Comp | 09/20/16 11:00 AM | Soil | E300 | Anion Prep | 09/27/16 10:21 AM | 77356 |
| | Cell 4 Comp | 09/20/16 11:00 AM | Soil | SW5030C | Purge and Trap Soils GC | 09/27/16 01:46 PM | 77360 |
| | Cell 4 Comp | 09/20/16 11:00 AM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 09/29/16 09:06 AM | 77377 |
| 1609206-02B | Cell 4 Comp | 09/20/16 11:00 AM | Soil | D2216 | Moisture Preparation | 09/27/16 03:54 PM | 77365 |
| | Cell 4 Comp | 09/20/16 11:00 AM | Soil | SW3550C | Soil Prep Sonication: DRO | 09/28/16 02:20 PM | 77373 |
| | Cell 4 Comp | 09/20/16 11:00 AM | Soil | SW3550C | Soil Prep Sonication: TRPH | 09/28/16 02:01 PM | 77372 |
| 1609206-03A | Cell 3 Comp | 09/20/16 11:05 AM | Soil | E300 | Anion Prep | 09/27/16 10:21 AM | 77356 |
| | Cell 3 Comp | 09/20/16 11:05 AM | Soil | SW5030C | Purge and Trap Soils GC | 09/27/16 01:46 PM | 77360 |
| | Cell 3 Comp | 09/20/16 11:05 AM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 09/29/16 09:06 AM | 77377 |
| 1609206-03B | Cell 3 Comp | 09/20/16 11:05 AM | Soil | D2216 | Moisture Preparation | 09/27/16 03:54 PM | 77365 |
| | Cell 3 Comp | 09/20/16 11:05 AM | Soil | SW3550C | Soil Prep Sonication: DRO | 09/28/16 02:20 PM | 77373 |
| | Cell 3 Comp | 09/20/16 11:05 AM | Soil | SW3550C | Soil Prep Sonication: TRPH | 09/28/16 02:01 PM | 77372 |
| 1609206-04A | Cell 1 Comp | 09/20/16 11:15 AM | Soil | E300 | Anion Prep | 09/27/16 10:21 AM | 77356 |
| | Cell 1 Comp | 09/20/16 11:15 AM | Soil | SW5030C | Purge and Trap Soils GC | 09/27/16 01:46 PM | 77360 |
| | Cell 1 Comp | 09/20/16 11:15 AM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 09/29/16 09:06 AM | 77377 |
| 1609206-04B | Cell 1 Comp | 09/20/16 11:15 AM | Soil | D2216 | Moisture Preparation | 09/27/16 03:54 PM | 77365 |
| | Cell 1 Comp | 09/20/16 11:15 AM | Soil | SW3550C | Soil Prep Sonication: DRO | 09/28/16 02:20 PM | 77373 |
| | Cell 1 Comp | 09/20/16 11:15 AM | Soil | SW3550C | Soil Prep Sonication: TRPH | 09/28/16 02:01 PM | 77372 |
| 1609206-05A | Cell 1 (2-3) | 09/20/16 12:15 PM | Soil | E300 | Anion Prep | 09/27/16 10:21 AM | 77356 |
| | Cell 1 (2-3) | 09/20/16 12:15 PM | Soil | SW5030C | Purge and Trap Soils GC | 09/27/16 01:46 PM | 77360 |
| | Cell 1 (2-3) | 09/20/16 12:15 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 09/29/16 09:06 AM | 77377 |

Lab Order: 1609206
Client: Larson & Associates
Project: R360 Artesia Aeration Landfarm N

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|------------------------------|-------------------|----------|
| 1609206-05B | Cell 1 (2-3) | 09/20/16 12:15 PM | Soil | D2216 | Moisture Preparation | 09/27/16 03:54 PM | 77365 |
| | Cell 1 (2-3) | 09/20/16 12:15 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 09/28/16 02:20 PM | 77373 |
| | Cell 1 (2-3) | 09/20/16 12:15 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 09/28/16 02:01 PM | 77372 |
| 1609206-06A | Cell 2 (2-3) | 09/20/16 12:30 PM | Soil | E300 | Anion Prep | 09/27/16 10:21 AM | 77356 |
| | Cell 2 (2-3) | 09/20/16 12:30 PM | Soil | SW5030C | Purge and Trap Soils GC | 09/27/16 01:46 PM | 77360 |
| | Cell 2 (2-3) | 09/20/16 12:30 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 09/29/16 09:06 AM | 77377 |
| 1609206-06B | Cell 2 (2-3) | 09/20/16 12:30 PM | Soil | D2216 | Moisture Preparation | 09/27/16 03:54 PM | 77365 |
| | Cell 2 (2-3) | 09/20/16 12:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 09/28/16 02:20 PM | 77373 |
| | Cell 2 (2-3) | 09/20/16 12:30 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 09/28/16 02:01 PM | 77372 |
| 1609206-07A | Cell 3 (2-3) | 09/20/16 12:45 PM | Soil | E300 | Anion Prep | 09/27/16 10:21 AM | 77356 |
| | Cell 3 (2-3) | 09/20/16 12:45 PM | Soil | SW5030C | Purge and Trap Soils GC | 09/27/16 01:46 PM | 77360 |
| | Cell 3 (2-3) | 09/20/16 12:45 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 09/29/16 09:06 AM | 77377 |
| 1609206-07B | Cell 3 (2-3) | 09/20/16 12:45 PM | Soil | D2216 | Moisture Preparation | 09/27/16 03:54 PM | 77365 |
| | Cell 3 (2-3) | 09/20/16 12:45 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 09/28/16 02:20 PM | 77373 |
| | Cell 3 (2-3) | 09/20/16 12:45 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 09/28/16 02:01 PM | 77372 |
| 1609206-08A | Cell 4 (2-3) | 09/20/16 01:05 PM | Soil | E300 | Anion Prep | 09/27/16 10:21 AM | 77356 |
| | Cell 4 (2-3) | 09/20/16 01:05 PM | Soil | SW5030C | Purge and Trap Soils GC | 09/27/16 01:46 PM | 77360 |
| | Cell 4 (2-3) | 09/20/16 01:05 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 09/29/16 09:06 AM | 77377 |
| 1609206-08B | Cell 4 (2-3) | 09/20/16 01:05 PM | Soil | D2216 | Moisture Preparation | 09/27/16 03:54 PM | 77365 |
| | Cell 4 (2-3) | 09/20/16 01:05 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 09/28/16 02:20 PM | 77373 |
| | Cell 4 (2-3) | 09/20/16 01:05 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 09/28/16 02:01 PM | 77372 |
| 1609206-09A | Cell 5 (2-3) | 09/20/16 01:30 PM | Soil | E300 | Anion Prep | 09/27/16 10:21 AM | 77356 |
| | Cell 5 (2-3) | 09/20/16 01:30 PM | Soil | SW5030C | Purge and Trap Soils GC | 09/27/16 01:46 PM | 77360 |
| | Cell 5 (2-3) | 09/20/16 01:30 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 09/29/16 09:06 AM | 77377 |
| 1609206-09B | Cell 5 (2-3) | 09/20/16 01:30 PM | Soil | D2216 | Moisture Preparation | 09/27/16 03:54 PM | 77365 |
| | Cell 5 (2-3) | 09/20/16 01:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 09/28/16 02:20 PM | 77373 |
| | Cell 5 (2-3) | 09/20/16 01:30 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 09/28/16 02:01 PM | 77372 |

Lab Order: 1609206
Client: Larson & Associates
Project: R360 Artesia Aeration Landfarm N

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|------------------------------|----------|----------|-------------------|----------------|
| 1609206-01A | Cell 5 Comp | Soil | E300 | Anions by IC method - Soil | 77356 | 10 | 09/27/16 03:43 PM | IC4_160927A |
| | Cell 5 Comp | Soil | M8015V | TPH Purgeable by GC - Soil | 77377 | 1 | 09/29/16 11:44 AM | GC4_160929A |
| | Cell 5 Comp | Soil | SW8021B | Volatile Organics by GC | 77360 | 1 | 09/27/16 03:48 PM | GC4_160927A |
| 1609206-01B | Cell 5 Comp | Soil | D2216 | Percent Moisture | 77365 | 1 | 09/28/16 08:20 AM | PMOIST_160927A |
| | Cell 5 Comp | Soil | M8015D | TPH Extractable by GC - Soil | 77373 | 1 | 09/29/16 11:31 AM | GC15_160929A |
| | Cell 5 Comp | Soil | M8015D | TPH Extractable by GC - Soil | 77373 | 10 | 09/29/16 12:09 PM | GC15_160929A |
| | Cell 5 Comp | Soil | E418.1 | TRPH | 77372 | 1 | 09/28/16 04:15 PM | IR207_160928A |
| 1609206-02A | Cell 4 Comp | Soil | E300 | Anions by IC method - Soil | 77356 | 1 | 09/27/16 12:08 PM | IC4_160927A |
| | Cell 4 Comp | Soil | M8015V | TPH Purgeable by GC - Soil | 77377 | 1 | 09/29/16 12:08 PM | GC4_160929A |
| | Cell 4 Comp | Soil | SW8021B | Volatile Organics by GC | 77360 | 1 | 09/27/16 04:13 PM | GC4_160927A |
| 1609206-02B | Cell 4 Comp | Soil | D2216 | Percent Moisture | 77365 | 1 | 09/28/16 08:20 AM | PMOIST_160927A |
| | Cell 4 Comp | Soil | M8015D | TPH Extractable by GC - Soil | 77373 | 1 | 09/29/16 12:55 PM | GC15_160929A |
| | Cell 4 Comp | Soil | E418.1 | TRPH | 77372 | 1 | 09/28/16 04:15 PM | IR207_160928A |
| 1609206-03A | Cell 3 Comp | Soil | E300 | Anions by IC method - Soil | 77356 | 1 | 09/27/16 12:23 PM | IC4_160927A |
| | Cell 3 Comp | Soil | M8015V | TPH Purgeable by GC - Soil | 77377 | 1 | 09/29/16 12:33 PM | GC4_160929A |
| | Cell 3 Comp | Soil | SW8021B | Volatile Organics by GC | 77360 | 1 | 09/27/16 04:37 PM | GC4_160927A |
| 1609206-03B | Cell 3 Comp | Soil | D2216 | Percent Moisture | 77365 | 1 | 09/28/16 08:20 AM | PMOIST_160927A |
| | Cell 3 Comp | Soil | M8015D | TPH Extractable by GC - Soil | 77373 | 1 | 09/29/16 01:31 PM | GC15_160929A |
| | Cell 3 Comp | Soil | E418.1 | TRPH | 77372 | 1 | 09/28/16 04:15 PM | IR207_160928A |
| 1609206-04A | Cell 1 Comp | Soil | E300 | Anions by IC method - Soil | 77356 | 10 | 09/27/16 03:58 PM | IC4_160927A |
| | Cell 1 Comp | Soil | M8015V | TPH Purgeable by GC - Soil | 77377 | 1 | 09/29/16 12:57 PM | GC4_160929A |
| | Cell 1 Comp | Soil | SW8021B | Volatile Organics by GC | 77360 | 1 | 09/27/16 05:01 PM | GC4_160927A |
| 1609206-04B | Cell 1 Comp | Soil | D2216 | Percent Moisture | 77365 | 1 | 09/28/16 08:20 AM | PMOIST_160927A |
| | Cell 1 Comp | Soil | M8015D | TPH Extractable by GC - Soil | 77373 | 1 | 09/29/16 10:37 AM | GC15_160929A |
| | Cell 1 Comp | Soil | E418.1 | TRPH | 77372 | 1 | 09/28/16 04:15 PM | IR207_160928A |
| 1609206-05A | Cell 1 (2-3) | Soil | E300 | Anions by IC method - Soil | 77356 | 1 | 09/27/16 12:53 PM | IC4_160927A |
| | Cell 1 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 77377 | 1 | 09/29/16 01:21 PM | GC4_160929A |
| | Cell 1 (2-3) | Soil | SW8021B | Volatile Organics by GC | 77360 | 1 | 09/27/16 05:25 PM | GC4_160927A |

Lab Order: 1609206
Client: Larson & Associates
Project: R360 Artesia Aeration Landfarm N

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|------------------------------|----------|----------|-------------------|----------------|
| 1609206-05B | Cell 1 (2-3) | Soil | D2216 | Percent Moisture | 77365 | 1 | 09/28/16 08:20 AM | PMOIST_160927A |
| | Cell 1 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 77373 | 1 | 09/29/16 10:46 AM | GC15_160929A |
| | Cell 1 (2-3) | Soil | E418.1 | TRPH | 77372 | 1 | 09/28/16 04:15 PM | IR207_160928A |
| 1609206-06A | Cell 2 (2-3) | Soil | E300 | Anions by IC method - Soil | 77356 | 10 | 09/27/16 04:13 PM | IC4_160927A |
| | Cell 2 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 77377 | 1 | 09/29/16 01:44 PM | GC4_160929A |
| | Cell 2 (2-3) | Soil | SW8021B | Volatile Organics by GC | 77360 | 1 | 09/27/16 05:49 PM | GC4_160927A |
| 1609206-06B | Cell 2 (2-3) | Soil | D2216 | Percent Moisture | 77365 | 1 | 09/28/16 08:20 AM | PMOIST_160927A |
| | Cell 2 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 77373 | 1 | 09/29/16 10:55 AM | GC15_160929A |
| | Cell 2 (2-3) | Soil | E418.1 | TRPH | 77372 | 1 | 09/28/16 04:15 PM | IR207_160928A |
| 1609206-07A | Cell 3 (2-3) | Soil | E300 | Anions by IC method - Soil | 77356 | 1 | 09/27/16 01:23 PM | IC4_160927A |
| | Cell 3 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 77377 | 1 | 09/29/16 02:08 PM | GC4_160929A |
| | Cell 3 (2-3) | Soil | SW8021B | Volatile Organics by GC | 77360 | 1 | 09/27/16 06:13 PM | GC4_160927A |
| 1609206-07B | Cell 3 (2-3) | Soil | D2216 | Percent Moisture | 77365 | 1 | 09/28/16 08:20 AM | PMOIST_160927A |
| | Cell 3 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 77373 | 1 | 09/29/16 11:04 AM | GC15_160929A |
| | Cell 3 (2-3) | Soil | E418.1 | TRPH | 77372 | 1 | 09/28/16 04:15 PM | IR207_160928A |
| 1609206-08A | Cell 4 (2-3) | Soil | E300 | Anions by IC method - Soil | 77356 | 1 | 09/27/16 01:38 PM | IC4_160927A |
| | Cell 4 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 77377 | 1 | 09/29/16 02:32 PM | GC4_160929A |
| | Cell 4 (2-3) | Soil | SW8021B | Volatile Organics by GC | 77360 | 1 | 09/27/16 06:37 PM | GC4_160927A |
| 1609206-08B | Cell 4 (2-3) | Soil | D2216 | Percent Moisture | 77365 | 1 | 09/28/16 08:20 AM | PMOIST_160927A |
| | Cell 4 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 77373 | 1 | 09/29/16 11:13 AM | GC15_160929A |
| | Cell 4 (2-3) | Soil | E418.1 | TRPH | 77372 | 1 | 09/28/16 04:15 PM | IR207_160928A |
| 1609206-09A | Cell 5 (2-3) | Soil | E300 | Anions by IC method - Soil | 77356 | 10 | 09/27/16 04:28 PM | IC4_160927A |
| | Cell 5 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 77377 | 1 | 09/29/16 02:56 PM | GC4_160929A |
| | Cell 5 (2-3) | Soil | SW8021B | Volatile Organics by GC | 77360 | 1 | 09/27/16 07:01 PM | GC4_160927A |
| 1609206-09B | Cell 5 (2-3) | Soil | D2216 | Percent Moisture | 77365 | 1 | 09/28/16 08:20 AM | PMOIST_160927A |
| | Cell 5 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 77373 | 1 | 09/29/16 11:22 AM | GC15_160929A |
| | Cell 5 (2-3) | Soil | E418.1 | TRPH | 77372 | 1 | 09/28/16 04:15 PM | IR207_160928A |

DHL Analytical, Inc.
Date: 30-Sep-16

| CLIENT: | Larson & Associates | | Client Sample ID: Cell 5 Comp Lab ID: 1609206-01 | | | | | |
|-------------------------------------|-----------------------------------|----------------|---|-------------|--------------|-----------|---|---|
| Project: | R360 Artesia Aeration Landfarm NM | | | | | | | |
| Project No: | 15-0121-01 | | | | | | Collection Date: 09/20/16 10:45 AM | |
| Lab Order: | 1609206 | | | | | | Matrix: SOIL | |
| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed | |
| TPH EXTRACTABLE BY GC - SOIL | | M8015D | | | | | | Analyst: DB |
| TPH-DRO C10-C28 | 422 | 109 | 109 | | mg/Kg-dry | 10 | 09/29/16 12:09 PM | |
| TPH-ORO >C28-C35 | 322 | 109 | 109 | | mg/Kg-dry | 10 | 09/29/16 12:09 PM | |
| Surr: Isopropylbenzene | 73.5 | 0 | 47-142 | | %REC | 10 | 09/29/16 12:09 PM | |
| Surr: Octacosane | 388 | 0 | 25-162 | s | %REC | 10 | 09/29/16 12:09 PM | |
| TPH PURGEABLE BY GC - SOIL | | M8015V | | | | | | Analyst: AV |
| Gasoline Range Organics | <0.199 | 0.0995 | 0.199 | | mg/Kg-dry | 1 | 09/29/16 11:44 AM | |
| Surr: Tetrachlorethene | 110 | 0 | 70-134 | | %REC | 1 | 09/29/16 11:44 AM | |
| VOLATILE ORGANICS BY GC | | SW8021B | | | | | | Analyst: AV |
| Benzene | <0.00499 | 0.00300 | 0.00499 | | mg/Kg-dry | 1 | 09/27/16 03:48 PM | |
| Ethylbenzene | <0.0150 | 0.00499 | 0.0150 | | mg/Kg-dry | 1 | 09/27/16 03:48 PM | |
| Toluene | <0.0150 | 0.00499 | 0.0150 | | mg/Kg-dry | 1 | 09/27/16 03:48 PM | |
| Xylenes, Total | <0.0150 | 0.00499 | 0.0150 | | mg/Kg-dry | 1 | 09/27/16 03:48 PM | |
| Surr: Tetrachloroethene | 104 | 0 | 79-135 | | %REC | 1 | 09/27/16 03:48 PM | |
| TRPH | | E418.1 | | | | | | Analyst: DEW/ 09/28/16 04:15 PM |
| Petroleum Hydrocarbons, TR | 357 | 5.53 | 11.1 | N | mg/Kg-dry | 1 | | |
| ANIONS BY IC METHOD - SOIL | | E300 | | | | | | Analyst: AV 09/27/16 03:43 PM |
| Chloride | 1120 | 53.9 | 53.9 | | mg/Kg-dry | 10 | | |
| PERCENT MOISTURE | | D2216 | | | | | | Analyst: SP 09/28/16 08:20 AM |
| Percent Moisture | 11.4 | 0 | 0 | | WT% | 1 | | |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.

Date: 30-Sep-16

| CLIENT: | Larson & Associates | | Client Sample ID: Cell 4 Comp Lab ID: 1609206-02 | | | | | |
|-------------------------------------|-----------------------------------|----------------|---|------|-----------|----|---|--|
| Project: | R360 Artesia Aeration Landfarm NM | | | | | | | |
| Project No: | 15-0121-01 | | | | | | Collection Date: 09/20/16 11:00 AM | |
| Lab Order: | 1609206 | | | | | | Matrix: SOIL | |
| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed | |
| TPH EXTRACTABLE BY GC - SOIL | | M8015D | | | | | Analyst: DB | |
| TPH-DRO C10-C28 | 159 | 10.5 | 10.5 | | mg/Kg-dry | 1 | 09/29/16 12:55 PM | |
| TPH-ORO >C28-C35 | 134 | 10.5 | 10.5 | | mg/Kg-dry | 1 | 09/29/16 12:55 PM | |
| Surr: Isopropylbenzene | 82.3 | 0 | 47-142 | | %REC | 1 | 09/29/16 12:55 PM | |
| Surr: Octacosane | 210 | 0 | 25-162 | S | %REC | 1 | 09/29/16 12:55 PM | |
| TPH PURGEABLE BY GC - SOIL | | M8015V | | | | | Analyst: AV | |
| Gasoline Range Organics | <0.196 | 0.0982 | 0.196 | | mg/Kg-dry | 1 | 09/29/16 12:08 PM | |
| Surr: Tetrachlorethene | 114 | 0 | 70-134 | | %REC | 1 | 09/29/16 12:08 PM | |
| VOLATILE ORGANICS BY GC | | SW8021B | | | | | Analyst: AV | |
| Benzene | <0.00465 | 0.00279 | 0.00465 | | mg/Kg-dry | 1 | 09/27/16 04:13 PM | |
| Ethylbenzene | <0.0140 | 0.00465 | 0.0140 | | mg/Kg-dry | 1 | 09/27/16 04:13 PM | |
| Toluene | <0.0140 | 0.00465 | 0.0140 | | mg/Kg-dry | 1 | 09/27/16 04:13 PM | |
| Xylenes, Total | <0.0140 | 0.00465 | 0.0140 | | mg/Kg-dry | 1 | 09/27/16 04:13 PM | |
| Surr: Tetrachloroethene | 106 | 0 | 79-135 | | %REC | 1 | 09/27/16 04:13 PM | |
| TRPH | | E418.1 | | | | | Analyst: DEW | |
| Petroleum Hydrocarbons, TR | 110 | 5.02 | 10.0 | N | mg/Kg-dry | 1 | 09/28/16 04:15 PM | |
| ANIONS BY IC METHOD - SOIL | | E300 | | | | | Analyst: AV | |
| Chloride | 81.4 | 5.14 | 5.14 | | mg/Kg-dry | 1 | 09/27/16 12:08 PM | |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: SP | |
| Percent Moisture | 5.41 | 0 | 0 | | WT% | 1 | 09/28/16 08:20 AM | |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.
Date: 30-Sep-16

| CLIENT: | Larson & Associates | | Client Sample ID: Cell 3 Comp | | | | | |
|-------------------------------------|-----------------------------------|----------------|--------------------------------------|-------------|--------------|-----------|---|--|
| Project: | R360 Artesia Aeration Landfarm NM | | | | | | Lab ID: 1609206-03 | |
| Project No: | 15-0121-01 | | | | | | Collection Date: 09/20/16 11:05 AM | |
| Lab Order: | 1609206 | | | | | | Matrix: SOIL | |
| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed | |
| TPH EXTRACTABLE BY GC - SOIL | | M8015D | | | | | Analyst: DB | |
| TPH-DRO C10-C28 | 136 | 9.89 | 9.89 | | mg/Kg-dry | 1 | 09/29/16 01:31 PM | |
| TPH-ORO >C28-C35 | 106 | 9.89 | 9.89 | | mg/Kg-dry | 1 | 09/29/16 01:31 PM | |
| Surr: Isopropylbenzene | 87.4 | 0 | 47-142 | | %REC | 1 | 09/29/16 01:31 PM | |
| Surr: Octacosane | 187 | 0 | 25-162 | s | %REC | 1 | 09/29/16 01:31 PM | |
| TPH PURGEABLE BY GC - SOIL | | M8015V | | | | | Analyst: AV | |
| Gasoline Range Organics | <0.183 | 0.0913 | 0.183 | | mg/Kg-dry | 1 | 09/25/16 12:33 PM | |
| Surr: Tetrachlorethene | 112 | 0 | 70-134 | | %REC | 1 | 09/29/16 12:33 PM | |
| VOLATILE ORGANICS BY GC | | SW8021B | | | | | Analyst: AV | |
| Benzene | <0.00471 | 0.00283 | 0.00471 | | mg/Kg-dry | 1 | 09/27/16 04:37 PM | |
| Ethylbenzene | <0.0141 | 0.00471 | 0.0141 | | mg/Kg-dry | 1 | 09/27/16 04:37 PM | |
| Toluene | <0.0141 | 0.00471 | 0.0141 | | mg/Kg-dry | 1 | 09/27/16 04:37 PM | |
| Xylenes, Total | <0.0141 | 0.00471 | 0.0141 | | mg/Kg-dry | 1 | 09/27/16 04:37 PM | |
| Surr: Tetrachloroethene | 102 | 0 | 79-135 | | %REC | 1 | 09/27/16 04:37 PM | |
| TRPH | | E418.1 | | | | | Analyst: DEW | |
| Petroleum Hydrocarbons, TR | 102 | 5.19 | 10.4 | N | mg/Kg-dry | 1 | 09/28/16 04:15 PM | |
| ANIONS BY IC METHOD - SOIL | | E300 | | | | | Analyst: AV | |
| Chloride | 112 | 5.17 | 5.17 | | mg/Kg-dry | 1 | 09/27/16 12:23 PM | |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: SP | |
| Percent Moisture | 4.23 | 0 | 0 | | WT% | 1 | 09/28/16 08:20 AM | |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.
Date: 30-Sep-16

| CLIENT: | Larson & Associates | Client Sample ID: Cell 1 Comp | | | | | |
|-------------------------------------|-----------------------------------|---|-----------|-------------|--------------|-----------|----------------------|
| Project: | R360 Artesia Aeration Landfarm NM | Lab ID: 1609206-04 | | | | | |
| Project No: | 15-0121-01 | Collection Date: 09/20/16 11:15 AM | | | | | |
| Lab Order: | 1609206 | Matrix: SOIL | | | | | |
| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
| TPH EXTRACTABLE BY GC - SOIL | | M8015D | | | | | Analyst: DB |
| TPH-DRO C10-C28 | 15.4 | 11.6 | 11.6 | | mg/Kg-dry | 1 | 09/29/16 10:37 AM |
| TPH-ORO >C28-C35 | <11.6 | 11.6 | 11.6 | | mg/Kg-dry | 1 | 09/29/16 10:37 AM |
| Surr: Isopropylbenzene | 81.1 | 0 | 47.142 | %REC | | 1 | 09/29/16 10:37 AM |
| Surr: Octacosane | 113 | 0 | 25.162 | %REC | | 1 | 09/29/16 10:37 AM |
| TPH PURGEABLE BY GC - SOIL | | M8015V | | | | | Analyst: AV |
| Gasoline Range Organics | <0.234 | 0.117 | 0.234 | | mg/Kg-dry | 1 | 09/29/16 12:57 PM |
| Surr: Tetrachlorethene | 114 | 0 | 70.134 | %REC | | 1 | 09/29/16 12:57 PM |
| VOLATILE ORGANICS BY GC | | SW8021B | | | | | Analyst: AV |
| Benzene | <0.00543 | 0.00326 | 0.00543 | | mg/Kg-dry | 1 | 09/27/16 05:01 PM |
| Ethylbenzene | <0.0163 | 0.00543 | 0.0163 | | mg/Kg-dry | 1 | 09/27/16 05:01 PM |
| Toluene | <0.0163 | 0.00543 | 0.0163 | | mg/Kg-dry | 1 | 09/27/16 05:01 PM |
| Xylenes, Total | <0.0163 | 0.00543 | 0.0163 | | mg/Kg-dry | 1 | 09/27/16 05:01 PM |
| Surr: Tetrachloroethene | 101 | 0 | 79.135 | %REC | | 1 | 09/27/16 05:01 PM |
| TRPH | | E418.1 | | | | | Analyst: DEW |
| Petroleum Hydrocarbons, TR | 15.1 | 5.73 | 11.5 | N | mg/Kg-dry | 1 | 09/28/16 04:15 PM |
| ANIONS BY IC METHOD - SOIL | | E300 | | | | | Analyst: AV |
| Chloride | 302 | 50.9 | 50.9 | | mg/Kg-dry | 10 | 09/27/16 03:58 PM |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: SP |
| Percent Moisture | 16.6 | 0 | 0 | | WT% | 1 | 09/28/16 08:20 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analytic detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.
Date: 30-Sep-16

| CLIENT: | Larson & Associates | | Client Sample ID: Cell 1 (2-3) | | | | |
|-------------------------------------|-----------------------------------|------------|---|-------------|--------------|---------------------|----------------------|
| Project: | R360 Artesia Aeration Landfarm NM | | Lab ID: 1609206-05 | | | | |
| Project No: | 15-0121-01 | | Collection Date: 09/20/16 12:15 PM | | | | |
| Lab Order: | 1609206 | | Matrix: SOIL | | | | |
| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
| TPH EXTRACTABLE BY GC - SOIL | M8015D | | | | | Analyst: DB | |
| TPH-DRO C10-C28 | <10.9 | 10.9 | 10.9 | | mg/Kg-dry | 1 | 09/29/16 10:46 AM |
| TPH-ORO >C28-C35 | <10.9 | 10.9 | 10.9 | | mg/Kg-dry | 1 | 09/29/16 10:46 AM |
| Surr: Isopropylbenzene | 76.1 | 0 | 47-142 | %REC | | 1 | 09/29/16 10:46 AM |
| Surr: Octacosane | 93.5 | 0 | 25-162 | %REC | | 1 | 09/29/16 10:46 AM |
| TPH PURGEABLE BY GC - SOIL | M8015V | | | | | Analyst: AV | |
| Gasoline Range Organics | <0.222 | 0.111 | 0.222 | | mg/Kg-dry | 1 | 09/29/16 01:21 PM |
| Surr: Tetrachlorethene | 124 | 0 | 70-134 | %REC | | 1 | 09/29/16 01:21 PM |
| VOLATILE ORGANICS BY GC | SW8021B | | | | | Analyst: AV | |
| Benzene | <0.00518 | 0.00311 | 0.00518 | | mg/Kg-dry | 1 | 09/27/16 05:25 PM |
| Ethylbenzene | <0.0155 | 0.00518 | 0.0155 | | mg/Kg-dry | 1 | 09/27/16 05:25 PM |
| Toluene | <0.0155 | 0.00518 | 0.0155 | | mg/Kg-dry | 1 | 09/27/16 05:25 PM |
| Xylenes, Total | <0.0155 | 0.00518 | 0.0155 | | mg/Kg-dry | 1 | 09/27/16 05:25 PM |
| Surr: Tetrachloroethene | 106 | 0 | 79-135 | %REC | | 1 | 09/27/16 05:25 PM |
| TRPH | E418.1 | | | | | Analyst: DEW | |
| Petroleum Hydrocarbons, TR | <11.1 | 5.55 | 11.1 | N | mg/Kg-dry | 1 | 09/28/16 04:15 PM |
| ANIONS BY IC METHOD - SOIL | E300 | | | | | Analyst: AV | |
| Chloride | 38.6 | 5.40 | 5.40 | | mg/Kg-dry | 1 | 09/27/16 12:53 PM |
| PERCENT MOISTURE | D2216 | | | | | Analyst: SP | |
| Percent Moisture | 11.9 | 0 | 0 | | WT% | 1 | 09/28/16 08:20 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.

Date: 30-Sep-16

| CLIENT: | Larson & Associates | | Client Sample ID: Cell 2 (2-3) | | | | |
|-------------------------------------|-----------------------------------|------------|---------------------------------------|-------------|--------------|---|----------------------|
| Project: | R360 Artesia Aeration Landfarm NM | | | | | Lab ID: 1609206-06 | |
| Project No: | 15-0121-01 | | | | | Collection Date: 09/20/16 12:30 PM | |
| Lab Order: | 1609206 | | | | | Matrix: SOIL | |
| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
| TPH EXTRACTABLE BY GC - SOIL | M8015D | | | | | Analyst: DB | |
| TPH-DRO C10-C28 | <10.9 | 10.9 | 10.9 | | mg/Kg-dry | 1 | 09/29/16 10:55 AM |
| TPH-ORO >C28-C35 | <10.9 | 10.9 | 10.9 | | mg/Kg-dry | 1 | 09/29/16 10:55 AM |
| Surr: Isopropylbenzene | 86.5 | 0 | 47-142 | %REC | | 1 | 09/29/16 10:55 AM |
| Surr: Octacosane | 97.1 | 0 | 25-162 | %REC | | 1 | 09/29/16 10:55 AM |
| TPH PURGEABLE BY GC - SOIL | M8015V | | | | | Analyst: AV | |
| Gasoline Range Organics | <0.223 | 0.112 | 0.223 | | mg/Kg-dry | 1 | 09/29/16 01:44 PM |
| Surr: Tetrachlorethene | 117 | 0 | 70-134 | %REC | | 1 | 09/29/16 01:44 PM |
| VOLATILE ORGANICS BY GC | SW8021B | | | | | Analyst: AV | |
| Benzene | <0.00553 | 0.00332 | 0.00553 | | mg/Kg-dry | 1 | 09/27/16 05:49 PM |
| Ethylbenzene | <0.0166 | 0.00553 | 0.0166 | | mg/Kg-dry | 1 | 09/27/16 05:49 PM |
| Toluene | <0.0166 | 0.00553 | 0.0166 | | mg/Kg-dry | 1 | 09/27/16 05:49 PM |
| Xylenes, Total | <0.0166 | 0.00553 | 0.0166 | | mg/Kg-dry | 1 | 09/27/16 05:49 PM |
| Surr: Tetrachloroethene | 107 | 0 | 79-135 | %REC | | 1 | 09/27/16 05:49 PM |
| TRPH | E418.1 | | | | | Analyst: DEW | |
| Petroleum Hydrocarbons, TR | <11.0 | 5.49 | 11.0 | N | mg/Kg-dry | 1 | 09/28/16 04:15 PM |
| ANIONS BY IC METHOD - SOIL | E300 | | | | | Analyst: AV | |
| Chloride | 331 | 55.3 | 55.3 | | mg/Kg-dry | 10 | 09/27/16 04:13 PM |
| PERCENT MOISTURE | D2216 | | | | | Analyst: SP | |
| Percent Moisture | 12.3 | 0 | 0 | | WT% | 1 | 09/28/16 08:20 AM |

| | | | | |
|--------------------|------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| | N | Parameter not NELAC certified | | |

DHL Analytical, Inc.
Date: 30-Sep-16

| CLIENT: | Larson & Associates | | Client Sample ID: Cell 3 (2-3) | | | | |
|-------------------------------------|-----------------------------------|----------------|---|-------------|--------------|-----------|----------------------|
| Project: | R360 Artesia Aeration Landfarm NM | | Lab ID: 1609206-07 | | | | |
| Project No: | 15-0121-01 | | Collection Date: 09/20/16 12:45 PM | | | | |
| Lab Order: | 1609206 | | Matrix: SOIL | | | | |
| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
| TPH EXTRACTABLE BY GC - SOIL | | M8015D | | | | | Analyst: DB |
| TPH-DRO C10-C28 | <11.2 | 11.2 | 11.2 | | mg/Kg-dry | 1 | 09/29/16 11:04 AM |
| TPH-ORO >C28-C35 | <11.2 | 11.2 | 11.2 | | mg/Kg-dry | 1 | 09/29/16 11:04 AM |
| Surr: Isopropylbenzene | 85.6 | 0 | 47-142 | | %REC | 1 | 09/29/16 11:04 AM |
| Surr: Octacosane | 95.4 | 0 | 25-162 | | %REC | 1 | 09/29/16 11:04 AM |
| TPH PURGEABLE BY GC - SOIL | | M8015V | | | | | Analyst: AV |
| Gasoline Range Organics | <0.202 | 0.101 | 0.202 | | mg/Kg-dry | 1 | 09/29/16 02:08 PM |
| Surr: Tetrachlorethene | 115 | 0 | 70-134 | | %REC | 1 | 09/29/16 02:08 PM |
| VOLATILE ORGANICS BY GC | | SW8021B | | | | | Analyst: AV |
| Benzene | <0.00547 | 0.00328 | 0.00547 | | mg/Kg-dry | 1 | 09/27/16 06:13 PM |
| Ethylbenzene | <0.0164 | 0.00547 | 0.0164 | | mg/Kg-dry | 1 | 09/27/16 06:13 PM |
| Toluene | <0.0164 | 0.00547 | 0.0164 | | mg/Kg-dry | 1 | 09/27/16 06:13 PM |
| Xylenes, Total | <0.0164 | 0.00547 | 0.0164 | | mg/Kg-dry | 1 | 09/27/16 06:13 PM |
| Surr: Tetrachloroethene | 103 | 0 | 79-135 | | %REC | 1 | 09/27/16 06:13 PM |
| TRPH | | E418.1 | | | | | Analyst: DEW |
| Petroleum Hydrocarbons, TR | 6.68 | 5.35 | 10.7 | JN | mg/Kg-dry | 1 | 09/28/16 04:15 PM |
| ANIONS BY IC METHOD - SOIL | | E300 | | | | | Analyst: AV |
| Chloride | <5.26 | 5.26 | 5.26 | | mg/Kg-dry | 1 | 09/27/16 01:23 PM |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: SP |
| Percent Moisture | 12.0 | 0 | 0 | | WT% | 1 | 09/28/16 08:20 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.

Date: 30-Sep-16

| CLIENT: | Larson & Associates | Client Sample ID: Cell 4 (2-3) | | | | | |
|-------------------------------------|-----------------------------------|---|-----------|-------------|--------------|-----------|----------------------|
| Project: | R360 Artesia Aeration Landfarm NM | Lab ID: 1609206-08 | | | | | |
| Project No: | 15-0121-01 | Collection Date: 09/20/16 01:05 PM | | | | | |
| Lab Order: | 1609206 | Matrix: SOIL | | | | | |
| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
| TPH EXTRACTABLE BY GC - SOIL | | M8015D | | | | | Analyst: DB |
| TPH-DRO C10-C28 | <11.7 | 11.7 | 11.7 | | mg/Kg-dry | 1 | 09/29/16 11:13 AM |
| TPH-ORO >C28-C35 | <11.7 | 11.7 | 11.7 | | mg/Kg-dry | 1 | 09/29/16 11:13 AM |
| Surr: Isopropylbenzene | 86.3 | 0 | 47-142 | %REC | | 1 | 09/29/16 11:13 AM |
| Surr: Octacosane | 97.9 | 0 | 25-162 | %REC | | 1 | 09/29/16 11:13 AM |
| TPH PURGEABLE BY GC - SOIL | | M8015V | | | | | Analyst: AV |
| Gasoline Range Organics | <0.230 | 0.115 | 0.230 | | mg/Kg-dry | 1 | 09/29/16 02:32 PM |
| Surr: Tetrachlorethene | 119 | 0 | 70-134 | %REC | | 1 | 09/29/16 02:32 PM |
| VOLATILE ORGANICS BY GC | | SW8021B | | | | | Analyst: AV |
| Benzene | <0.00573 | 0.00344 | 0.00573 | | mg/Kg-dry | 1 | 09/27/16 06:37 PM |
| Ethylbenzene | <0.0172 | 0.00573 | 0.0172 | | mg/Kg-dry | 1 | 09/27/16 06:37 PM |
| Toluene | <0.0172 | 0.00573 | 0.0172 | | mg/Kg-dry | 1 | 09/27/16 06:37 PM |
| Xylenes, Total | <0.0172 | 0.00573 | 0.0172 | | mg/Kg-dry | 1 | 09/27/16 06:37 PM |
| Surr: Tetrachloroethene | 101 | 0 | 79-135 | %REC | | 1 | 09/27/16 06:37 PM |
| TRPH | | E418.1 | | | | | Analyst: DEW |
| Petroleum Hydrocarbons, TR | <11.1 | 5.54 | 11.1 | N | mg/Kg-dry | 1 | 09/28/16 04:15 PM |
| ANIONS BY IC METHOD - SOIL | | E300 | | | | | Analyst: AV |
| Chloride | 165 | 5.88 | 5.88 | | mg/Kg-dry | 1 | 09/27/16 01:38 PM |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: SP |
| Percent Moisture | 15.6 | 0 | 0 | | WT% | 1 | 09/28/16 08:20 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.

Date: 30-Sep-16

| | | | | | | | |
|--------------------|-----------------------------------|---|--|--|--|--|--|
| CLIENT: | Larson & Associates | Client Sample ID: Cell 5 (2-3) | | | | | |
| Project: | R360 Artesia Aeration Landfarm NM | Lab ID: 1609206-09 | | | | | |
| Project No: | 15-0121-01 | Collection Date: 09/20/16 01:30 PM | | | | | |
| Lab Order: | 1609206 | Matrix: SOIL | | | | | |

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | <10.7 | 10.7 | 10.7 | | mg/Kg-dry | 1 | 09/29/16 11:22 AM |
| TPH-ORO >C28-C35 | <10.7 | 10.7 | 10.7 | | mg/Kg-dry | 1 | 09/29/16 11:22 AM |
| Surr: Isopropylbenzene | 81.5 | 0 | 47-142 | %REC | | 1 | 09/29/16 11:22 AM |
| Surr: Octacosane | 97.0 | 0 | 25-162 | %REC | | 1 | 09/29/16 11:22 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.225 | 0.112 | 0.225 | | mg/Kg-dry | 1 | 09/29/16 02:56 PM |
| Surr: Tetrachlorethene | 114 | 0 | 70-134 | %REC | | 1 | 09/29/16 02:56 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| SW8021B | | | | | | | |
| Benzene | <0.00509 | 0.00305 | 0.00509 | | mg/Kg-dry | 1 | 09/27/16 07:01 PM |
| Ethylbenzene | <0.0153 | 0.00509 | 0.0153 | | mg/Kg-dry | 1 | 09/27/16 07:01 PM |
| Toluene | <0.0153 | 0.00509 | 0.0153 | | mg/Kg-dry | 1 | 09/27/16 07:01 PM |
| Xylenes, Total | <0.0153 | 0.00509 | 0.0153 | | mg/Kg-dry | 1 | 09/27/16 07:01 PM |
| Surr: Tetrachloroethene | 102 | 0 | 79-135 | %REC | | 1 | 09/27/16 07:01 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <11.0 | 5.51 | 11.0 | N | mg/Kg-dry | 1 | 09/28/16 04:15 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| E300 | | | | | | | |
| Chloride | 289 | 48.4 | 48.4 | | mg/Kg-dry | 10 | 09/27/16 04:28 PM |
| PERCENT MOISTURE | | | | | | | |
| D2216 | | | | | | | |
| Percent Moisture | 11.1 | 0 | 0 | | WT% | 1 | 09/28/16 08:20 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.

Date: 30-Sep-16

CLIENT: Larson & Associates
Work Order: 1609206

Project: R360 Artesia Aeration Landfarm NM

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_160929A

The QC data in batch 77373 applies to the following samples: 1609206-01B, 1609206-02B, 1609206-03B, 1609206-04B, 1609206-05B, 1609206-06B, 1609206-07B, 1609206-08B, 1609206-09B

| Sample ID | LCS-77373 | Batch ID: | 77373 | TestNo: | M8015D | | Units: | mg/Kg | | | |
|------------------------|----------------|-----------|--------------|----------------|-----------------------|------|------------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | GC15_160929A | Analysis Date: | 9/29/2016 9:35:05 AM | | Prep Date: | 9/28/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 107 | 10.0 | 125.0 | 0 | 85.6 | 50 | 114 | | | |
| Surr: Isopropylbenzene | | 6.57 | | 7.500 | | 87.6 | 47 | 142 | | | |
| Surr: Octacosane | | 7.55 | | 7.500 | | 101 | 25 | 162 | | | |
| Sample ID | LCS2-77373 | Batch ID: | 77373 | TestNo: | M8015D | | Units: | mg/Kg | | | |
| SampType: | LCS | Run ID: | GC15_160929A | Analysis Date: | 9/29/2016 9:44:05 AM | | Prep Date: | 9/28/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 106 | 10.0 | 125.0 | 0 | 84.6 | 50 | 114 | | | |
| Surr: Isopropylbenzene | | 6.53 | | 7.500 | | 87.1 | 47 | 142 | | | |
| Surr: Octacosane | | 7.37 | | 7.500 | | 98.2 | 25 | 162 | | | |
| Sample ID | MB-77373 | Batch ID: | 77373 | TestNo: | M8015D | | Units: | mg/Kg | | | |
| SampType: | MBLK | Run ID: | GC15_160929A | Analysis Date: | 9/29/2016 10:11:02 AM | | Prep Date: | 9/28/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | <10.0 | 10.0 | | | | | | | | |
| TPH-ORO >C28-C35 | | <10.0 | 10.0 | | | | | | | | |
| Surr: Isopropylbenzene | | 6.44 | | 7.500 | | 85.9 | 47 | 142 | | | |
| Surr: Octacosane | | 7.48 | | 7.500 | | 99.8 | 25 | 162 | | | |
| Sample ID | 1609206-01BMS | Batch ID: | 77373 | TestNo: | M8015D | | Units: | mg/Kg-dry | | | |
| SampType: | MS | Run ID: | GC15_160929A | Analysis Date: | 9/29/2016 2:08:27 PM | | Prep Date: | 9/28/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 664 | 112 | 139.6 | 422.5 | 173 | 50 | 114 | | | S |
| Surr: Isopropylbenzene | | 6.93 | | 8.378 | | 82.7 | 47 | 142 | | | |
| Surr: Octacosane | | 33.9 | | 8.378 | | 404 | 25 | 162 | | | S |
| Sample ID | 1609206-01BMSD | Batch ID: | 77373 | TestNo: | M8015D | | Units: | mg/Kg-dry | | | |
| SampType: | MSD | Run ID: | GC15_160929A | Analysis Date: | 9/29/2016 2:44:23 PM | | Prep Date: | 9/28/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 482 | 110 | 138.0 | 422.5 | 43.3 | 50 | 114 | 31.7 | 30 | SR |
| Surr: Isopropylbenzene | | 6.52 | | 8.280 | | 78.7 | 47 | 142 | 0 | 0 | |
| Surr: Octacosane | | 26.0 | | 8.280 | | 314 | 25 | 162 | 0 | 0 | S |

Qualifiers: B Analytic detected in the associated Method Blank
J Analytic detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
S J Analytic detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 1 of 10

CLIENT: Larson & Associates
Work Order: 1609206
Project: R360 Artesia Aeration Landfarm NM

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_160929A

| Sample ID | ICV-160929 | Batch ID: | R88343 | TestNo: | M8015D | Units: | mg/Kg | | | | |
|------------------------|-------------|-----------|--------------|-------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GC15_160929A | Analysis Date: 9/29/2016 9:24:37 AM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 492 | 10.0 | 500.0 | 0 | 98.4 | 80 | 120 | | | |
| Surr: Isopropylbenzene | | 26.4 | | 25.00 | | 106 | 80 | 120 | | | |
| Surr: Octacosane | | 26.4 | | 25.00 | | 106 | 80 | 120 | | | |
| Sample ID | CCV1-160929 | Batch ID: | R88343 | TestNo: | M8015D | Units: | mg/Kg | | | | |
| SampType: | CCV | Run ID: | GC15_160929A | Analysis Date: 9/29/2016 3:20:17 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 224 | 10.0 | 250.0 | 0 | 89.7 | 80 | 120 | | | |
| Surr: Isopropylbenzene | | 12.4 | | 12.50 | | 99.0 | 80 | 120 | | | |
| Surr: Octacosane | | 11.4 | | 12.50 | | 91.2 | 80 | 120 | | | |

Qualifiers: B Analytic detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1609206
Project: R360 Artesia Aeration Landfarm NM

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_160927A

The QC data in batch 77360 applies to the following samples: 1609206-01A, 1609206-02A, 1609206-03A, 1609206-04A, 1609206-05A, 1609206-06A, 1609206-07A, 1609206-08A, 1609206-09A

| Sample ID | LCS-77360 | Batch ID: | 77360 | TestNo: | SW8021B | | Units: | mg/Kg | | | |
|-------------------------|----------------|-----------|-------------|----------------|----------------------|------|------------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | GC4_160927A | Analysis Date: | 9/27/2016 2:21:26 PM | | Prep Date: | 9/27/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.0870 | 0.00500 | 0.1000 | 0 | 87.0 | 65 | 113 | | | |
| Toluene | | 0.0924 | 0.0150 | 0.1000 | 0 | 92.4 | 73 | 115 | | | |
| Ethylbenzene | | 0.0915 | 0.0150 | 0.1000 | 0 | 91.5 | 74 | 118 | | | |
| Xylenes, Total | | 0.275 | 0.0150 | 0.3000 | 0 | 91.7 | 73 | 119 | | | |
| Surr: Tetrachloroethene | | 0.181 | | 0.2000 | | 90.6 | 79 | 135 | | | |
| Sample ID | MB-77360 | Batch ID: | 77360 | TestNo: | SW8021B | | Units: | mg/Kg | | | |
| SampType: | MBLK | Run ID: | GC4_160927A | Analysis Date: | 9/27/2016 3:09:24 PM | | Prep Date: | 9/27/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | <0.00500 | 0.00500 | | | | | | | | |
| Toluene | | <0.0150 | 0.0150 | | | | | | | | |
| Ethylbenzene | | <0.0150 | 0.0150 | | | | | | | | |
| Xylenes, Total | | <0.0150 | 0.0150 | | | | | | | | |
| Surr: Tetrachloroethene | | 0.203 | | 0.2000 | | | 102 | 79 | 135 | | |
| Sample ID | 1609206-09AMS | Batch ID: | 77360 | TestNo: | SW8021B | | Units: | mg/Kg-dry | | | |
| SampType: | MS | Run ID: | GC4_160927A | Analysis Date: | 9/27/2016 7:26:01 PM | | Prep Date: | 9/27/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.0936 | 0.00514 | 0.1028 | 0 | 91.0 | 65 | 113 | | | |
| Toluene | | 0.0969 | 0.0154 | 0.1028 | 0 | 94.2 | 73 | 115 | | | |
| Ethylbenzene | | 0.0954 | 0.0154 | 0.1028 | 0 | 92.8 | 74 | 118 | | | |
| Xylenes, Total | | 0.292 | 0.0154 | 0.3085 | 0 | 94.5 | 73 | 119 | | | |
| Surr: Tetrachloroethene | | 0.197 | | 0.2057 | | 95.6 | 79 | 135 | | | |
| Sample ID | 1609206-09AMSD | Batch ID: | 77360 | TestNo: | SW8021B | | Units: | mg/Kg-dry | | | |
| SampType: | MSD | Run ID: | GC4_160927A | Analysis Date: | 9/27/2016 7:50:22 PM | | Prep Date: | 9/27/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.0897 | 0.00487 | 0.09750 | 0 | 92.0 | 65 | 113 | 4.31 | 30 | |
| Toluene | | 0.0939 | 0.0146 | 0.09750 | 0 | 96.3 | 73 | 115 | 3.15 | 30 | |
| Ethylbenzene | | 0.0927 | 0.0146 | 0.09750 | 0 | 95.1 | 74 | 118 | 2.93 | 30 | |
| Xylenes, Total | | 0.280 | 0.0146 | 0.2925 | 0 | 95.9 | 73 | 119 | 3.91 | 30 | |
| Surr: Tetrachloroethene | | 0.188 | | 0.1950 | | 96.2 | 79 | 135 | 0 | | |

Qualifiers: B Analytic detected in the associated Method Blank
J Analytic detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analytic detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1609206
Project: R360 Artesia Aeration Landfarm NM

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_160927A

| Sample ID | ICV-160927 | Batch ID: | R88323 | TestNo: | SW8021B | | Units: | mg/Kg | | | |
|-------------------------|------------|-----------|-------------|-------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GC4_160927A | Analysis Date: 9/27/2016 1:41:12 PM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.181 | 0.00500 | 0.2000 | 0 | 90.6 | 80 | 120 | | | |
| Toluene | | 0.188 | 0.0150 | 0.2000 | 0 | 93.9 | 80 | 120 | | | |
| Ethylbenzene | | 0.190 | 0.0150 | 0.2000 | 0 | 95.1 | 80 | 120 | | | |
| Xylenes, Total | | 0.605 | 0.0150 | 0.6000 | 0 | 101 | 80 | 120 | | | |
| Surr: Tetrachloroethene | | 0.201 | | 0.2000 | | 100 | 79 | 135 | | | |

| Sample ID | CCV1-160927 | Batch ID: | R88323 | TestNo: | SW8021B | | Units: | mg/Kg | | | |
|-------------------------|-------------|-----------|-------------|-------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | GC4_160927A | Analysis Date: 9/27/2016 8:38:18 PM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.0928 | 0.00500 | 0.1000 | 0 | 92.8 | 80 | 120 | | | |
| Toluene | | 0.0971 | 0.0150 | 0.1000 | 0 | 97.1 | 80 | 120 | | | |
| Ethylbenzene | | 0.0966 | 0.0150 | 0.1000 | 0 | 96.6 | 80 | 120 | | | |
| Xylenes, Total | | 0.290 | 0.0150 | 0.3000 | 0 | 96.6 | 80 | 120 | | | |
| Surr: Tetrachloroethene | | 0.200 | | 0.2000 | | 100 | 79 | 135 | | | |

Qualifiers: B Analytic detected in the associated Method Blank
 J Analytic detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analytic detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1609206
Project: R360 Artesia Aeration Landfarm NM

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_160929A

The QC data in batch 77377 applies to the following samples: 1609206-01A, 1609206-02A, 1609206-03A, 1609206-04A, 1609206-05A, 1609206-06A, 1609206-07A, 1609206-08A, 1609206-09A

| Sample ID | Batch ID: | TestNo: | Units: | | mg/Kg | | | | | |
|-------------------------|-----------|----------------|------------|---------|-----------|----------|-----------|------|----------|------|
| SampType: | Run ID: | Analysis Date: | Prep Date: | | 9/29/2016 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | 2.39 | 0.200 | 2.500 | 0 | 95.8 | 68 | 126 | | | |
| Surr: Tetrachlorethene | 0.391 | | 0.4000 | | 97.7 | 70 | 134 | | | |
| Sample ID | Batch ID: | TestNo: | Units: | | mg/Kg | | | | | |
| SampType: | Run ID: | Analysis Date: | Prep Date: | | 9/29/2016 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | <0.200 | 0.200 | | | | | | | | |
| Surr: Tetrachlorethene | 0.454 | | 0.4000 | | 113 | 70 | 134 | | | |
| Sample ID | Batch ID: | TestNo: | Units: | | mg/Kg-dry | | | | | |
| SampType: | Run ID: | Analysis Date: | Prep Date: | | 9/29/2016 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | 2.38 | 0.207 | 2.590 | 0 | 91.7 | 68 | 126 | | | |
| Surr: Tetrachlorethene | 0.429 | | 0.4144 | | 103 | 70 | 134 | | | |
| Sample ID | Batch ID: | TestNo: | Units: | | mg/Kg-dry | | | | | |
| SampType: | Run ID: | Analysis Date: | Prep Date: | | 9/29/2016 | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | 2.67 | 0.219 | 2.742 | 0 | 97.5 | 68 | 126 | 11.8 | 30 | |
| Surr: Tetrachlorethene | 0.459 | | 0.4386 | | 105 | 70 | 134 | 0 | 0 | |

Qualifiers: B Analytic detected in the associated Method Blank
J Analytic detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analytic detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1609206
Project: R360 Artesia Aeration Landfarm NM

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_160929A

| Sample ID | ICV-160929 | Batch ID: | R88351 | TestNo: | M8015V | | Units: | mg/Kg | | | |
|-------------------------|------------|-----------|-------------|-------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GC4_160929A | Analysis Date: 9/29/2016 8:55:53 AM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 4.38 | 0.200 | 5.000 | 0 | 87.6 | 80 | 120 | | | |
| Surr: Tetrachlorethane | | 0.302 | | 0.4000 | | 75.5 | 70 | 134 | | | |

| Sample ID | CCV1-160929 | Batch ID: | R88351 | TestNo: | M8015V | | Units: | mg/Kg | | | |
|-------------------------|-------------|-----------|-------------|-------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | GC4_160929A | Analysis Date: 9/29/2016 4:12:04 PM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 2.62 | 0.200 | 2.500 | 0 | 105 | 80 | 120 | | | |
| Surr: Tetrachlorethane | | 0.373 | | 0.4000 | | 93.3 | 70 | 134 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1609206
Project: R360 Artesia Aeration Landfarm NM

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_160927A

The QC data in batch 77356 applies to the following samples: 1609206-01A, 1609206-02A, 1609206-03A, 1609206-04A, 1609206-05A, 1609206-06A, 1609206-07A, 1609206-08A, 1609206-09A

| Sample ID | MB-77356 | Batch ID: | 77356 | TestNo: | E300 | Units: | mg/Kg | | | | |
|-----------|-----------------|-----------|-------------|--------------------------------------|---------|------------|-----------|-----------|-------|----------|------|
| SampType: | MBLK | Run ID: | IC4_160927A | Analysis Date: 9/27/2016 10:57:53 AM | | Prep Date: | 9/27/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | <5.00 | 5.00 | | | | | | | | |
| Sample ID | LCS-77356 | Batch ID: | 77356 | TestNo: | E300 | Units: | mg/Kg | | | | |
| SampType: | LCS | Run ID: | IC4_160927A | Analysis Date: 9/27/2016 11:12:53 AM | | Prep Date: | 9/27/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 51.8 | 5.00 | 50.00 | 0 | 104 | 80 | 120 | | | |
| Sample ID | LCSD-77356 | Batch ID: | 77356 | TestNo: | E300 | Units: | mg/Kg | | | | |
| SampType: | LCSD | Run ID: | IC4_160927A | Analysis Date: 9/27/2016 11:27:53 AM | | Prep Date: | 9/27/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 52.0 | 5.00 | 50.00 | 0 | 104 | 80 | 120 | 0.356 | 20 | |
| Sample ID | 1609206-05A-DUP | Batch ID: | 77356 | TestNo: | E300 | Units: | mg/Kg-dry | | | | |
| SampType: | DUP | Run ID: | IC4_160927A | Analysis Date: 9/27/2016 2:58:25 PM | | Prep Date: | 9/27/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 44.5 | 5.34 | 0 | 38.59 | | | | 14.2 | 20 | |
| Sample ID | 1609206-05AMS | Batch ID: | 77356 | TestNo: | E300 | Units: | mg/Kg-dry | | | | |
| SampType: | MS | Run ID: | IC4_160927A | Analysis Date: 9/27/2016 3:13:25 PM | | Prep Date: | 9/27/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 163 | 5.50 | 110.0 | 38.59 | 113 | 80 | 120 | | | |
| Sample ID | 1609206-05AMSD | Batch ID: | 77356 | TestNo: | E300 | Units: | mg/Kg-dry | | | | |
| SampType: | MSD | Run ID: | IC4_160927A | Analysis Date: 9/27/2016 3:28:25 PM | | Prep Date: | 9/27/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 162 | 5.48 | 109.6 | 38.59 | 113 | 80 | 120 | 0.452 | 20 | |

Qualifiers: B Analytic detected in the associated Method Blank
J Analytic detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1609206
Project: R360 Artesia Aeration Landfarm NM

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_160927A

| Sample ID | ICV-160927 | Batch ID: | R88318 | TestNo: | E300 | Units: | mg/Kg | | | | |
|-----------|---|-----------|-------------|--------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | IC4_160927A | Analysis Date: 9/27/2016 10:14:40 AM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 24.7 | 5.00 | 25.00 | 0 | 98.7 | 90 | 110 | | | |
| Sample ID | CCV1-160927 | Batch ID: | R88318 | TestNo: | E300 | Units: | mg/Kg | | | | |
| SampType: | CCV <th>Run ID:</th> <td>IC4_160927A</td> <th data-cs="2" data-kind="parent">Analysis Date: 9/27/2016 2:23:20 PM</th> <th data-kind="ghost"></th> <th>Prep Date:</th> <td></td> | Run ID: | IC4_160927A | Analysis Date: 9/27/2016 2:23:20 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 10.5 | 5.00 | 10.00 | 0 | 105 | 90 | 110 | | | |
| Sample ID | CCV2-160927 | Batch ID: | R88318 | TestNo: | E300 | Units: | mg/Kg | | | | |
| SampType: | CCV | Run ID: | IC4_160927A | Analysis Date: 9/27/2016 4:58:25 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 10.5 | 5.00 | 10.00 | 0 | 105 | 90 | 110 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1609206
Project: R360 Artesia Aeration Landfarm NM

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_160928A

The QC data in batch 77372 applies to the following samples: 1609206-01B, 1609206-02B, 1609206-03B, 1609206-04B, 1609206-05B, 1609206-06B, 1609206-07B, 1609206-08B, 1609206-09B

| Sample ID | Batch ID: | TestNo: | Units: | | | | | | | |
|----------------------------|-----------------------|-------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 224 | 10.0 | 250.0 | 0 | 89.8 | 90 | 110 | | | N |
| Sample ID LCS-77372 | Batch ID: 77372 | TestNo: E418.1 | Units: mg/Kg | | | | | | | |
| SampType: LCS | Run ID: IR207_160928A | Analysis Date: 9/28/2016 4:15:00 PM | Prep Date: 9/28/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 107 | 10.0 | 100.0 | 0 | 107 | 80 | 120 | | | N |
| Sample ID MB-77372 | Batch ID: 77372 | TestNo: E418.1 | Units: mg/Kg | | | | | | | |
| SampType: MBLK | Run ID: IR207_160928A | Analysis Date: 9/28/2016 4:15:00 PM | Prep Date: 9/28/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | <10.0 | 10.0 | | | | | | | | N |
| Sample ID 1609206-09BMS | Batch ID: 77372 | TestNo: E418.1 | Units: mg/Kg-dry | | | | | | | |
| SampType: MS | Run ID: IR207_160928A | Analysis Date: 9/28/2016 4:15:00 PM | Prep Date: 9/28/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 137 | 11.1 | 110.7 | 0 | 124 | 80 | 120 | | | SN |
| Sample ID 1609206-09BMSD | Batch ID: 77372 | TestNo: E418.1 | Units: mg/Kg-dry | | | | | | | |
| SampType: MSD | Run ID: IR207_160928A | Analysis Date: 9/28/2016 4:15:00 PM | Prep Date: 9/28/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 160 | 10.9 | 109.4 | 0 | 146 | 80 | 120 | 15.5 | 20 | SN |
| Sample ID CCV1-160928 | Batch ID: 77372 | TestNo: E418.1 | Units: mg/Kg | | | | | | | |
| SampType: CCV | Run ID: IR207_160928A | Analysis Date: 9/28/2016 4:15:00 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 226 | 10.0 | 250.0 | 0 | 90.5 | 85 | 115 | | | N |

Qualifiers: B Analytic detected in the associated Method Blank
J Analytic detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analytic detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1609206
Project: R360 Artesia Aeration Landfarm NM

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_160927A

The QC data in batch 77365 applies to the following samples: 1609206-01B, 1609206-02B, 1609206-03B, 1609206-04B, 1609206-05B, 1609206-06B, 1609206-07B, 1609206-08B, 1609206-09B

| Sample ID | 1609206-01B DUP | Batch ID: | 77365 | TestNo: | D2216 | Units: | WT% | | | | |
|------------------|-----------------|-----------|----------------|----------------|----------------------|------------|-----------|-----------|------|----------|------|
| SampType: | DUP | Run ID: | PMOIST_160927A | Analysis Date: | 9/28/2016 8:20:00 AM | Prep Date: | 9/27/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Percent Moisture | | 11.4 | 0 | 0 | 11.37 | | 0.559 | 30 | | | |

Qualifiers: B Analytic detected in the associated Method Blank
J Analytic detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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2016 ANALYTICAL RESULTS
R360 ARTESIA, LLC LANDFARM

2016 Q2 - 42 - P-22

September 8, 2016

Mr. Brad Jones
Oil Conservation Division
New Mexico Energy, Minerals and
Natural Resources Department
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: 2016 Analytical Results, R360 Artesia, LLC Landfarm (NM1-30-0), Unit B
(NW/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New
Mexico

Mr. Jones:

The enclosed data tables present laboratory results of treatment and vadose soil samples collected at the R360 Artesia, LLC (formerly Artesia Aeration) Landfarm during the second quarter of 2016. You may contact me at (956) 458-0515 or by email at StephanieG@r360es.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie Garza".

Stephanie Garza

R360 Environmental Solutions, LLC

Attachments

**QUARTERLY
TREATMENT AND VADOSE ZONE
MONITORING REPORT**
(June 1, 2016)

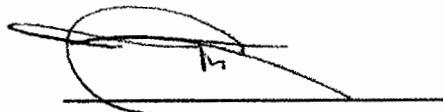
R360 Artesia LLC Landfarm
Lea County, New Mexico
Permit No. NM-030

LAI Project No. 15-0121-01

August 10, 2016

Prepared for:
R360 Environmental Solutions, LLC
507 N. Marienfeld Street, Suite 205
Midland, Texas 79701

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 205
Midland, Texas 79701

A handwritten signature in black ink, appearing to read "Mark J. Larson, P.G.", is written over a stylized oval. The oval has a horizontal line through its center, and the signature is written across this line.

Mark J. Larson, P.G.
Texas Professional Geologist #4469

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1.0 EXECUTIVE SUMMARY

This report presents the second (2nd) quarter 2016 treatment and vadose zone monitoring results for the R360 Artesia, LLC Landfarm (Site). The Site is located in Unit A (NE/4, NE/4), Section 7, Township 17 South and Range 32 East in Lea County, New Mexico. The geodetic position is north 32° 51' 171" and west 103° 47' 56.9". The Facility is divided into 6 cells (Cell 1 through Cell 6) ranging in size from about 2.74 acres (Cell 1) to 13.28 acres (Cell 6).

During the second quarter samples were collected from about 1 foot into the treatment zone at cells 1, 3, 4 and 5. No soil has been added to the treatment zone in cell 2 since the New Mexico Oil Conservation Division (OCD) approved adding another lift of contaminated soil therefore no treatment zone samples were collected from cell 2 during the second quarter 2016. Vadose samples were collected between about 2 and 3 feet below cells 1 through 5 during the second quarter. The treatment and vadose zone samples were analyzed for BTEX (sum of benzene, toluene, ethylbenzene and xylene), TPH (total petroleum hydrocarbons), TRPH (total recoverable hydrocarbons (TRPH) and chloride by EPA SW-848 methods 8021B, 8015, 418.1 and 300, respectively.

The following conclusions are drawn from the second (2nd) quarter 2016 monitoring event:

- BTEX was below the analytical method reporting limit (RL) in treatment zone samples from cells 1, 3, 4 and 5;
- TPH was below the closure performance standard of 500 milligrams per kilogram (mg/Kg) in treatment zone samples from cells 1 and 3;
- TPH exceeded the closure performance standard in treatment zone samples from cell 4 (671 mg/Kg) and cell 5 (914 mg/Kg);
- TRPH was below the closure performance standard (2,500 mg/Kg) in treatment zone samples from cells 1, 3, 4 and 5 during the second quarter 2016;
- Chloride exceeded the closure performance standard (1,000 mg/Kg) in the treatment zone sample from cell 5 (4,630 mg/Kg);
- BTEX, TPH and TRPH were below the analytical method RL in vadose zone samples from cells 1 through 5 during the second quarter 2016;
- Chloride in exceeded the background concentration (5.04 mg/Kg) in vadose samples from cells 1 through 5 and ranged from 98.2 mg/Kg (cell 1) to 882 mg/Kg (cell 5).

R360 will continue monthly tilling of cell 1, 2, 3, 4, and 5 to promote volatilization and microbial degradation of hydrocarbons in the treatment zone. R360 will notify OCD District 1 and Santa Fe offices at least 24 hours prior to collecting samples during the third (3rd) quarter 2016.

2.0 INTRODUCTION

This report has been prepared by Larson & Associates, Inc. (LAI) to present vadose and treatment zone monitoring results for the second (2nd) quarter of 2016 at the R360 Artesia, LLC (R360) Landfarm (Facility) located in Lea County, New Mexico. The Facility is permitted by the New Mexico Oil Conservation Division (OCD) as a commercial surface waste management facility (NM-1-0030) for treating exempt oil field waste (i.e., soil and drill cuttings) contaminated predominately by petroleum hydrocarbons.

The Facility occupies approximately 48.4 acres in Unit A (NE/4, NE/4), Section 7, Township 17 South and Range 32 East in Lea County, New Mexico. The geodetic position is north 32° 51' 4.93" and west 103° 48' 15.45". The Facility is divided into 6 cells (Cell 1 through Cell 6) ranging in size from about 2.74 acres (Cell 1) to 13.28 acres (Cell 6). Figure 1 presents a detailed topographic map. Figure 2 presents an aerial map. Figure 3 presents a Facility drawing with locations of the first quarter samples.

The Facility was permitted under Artesia Aeration Landfarm on November 29, 1999. R360 acquired the Facility in April 2011 and has not accepted new material since acquiring the Facility.

3.0 LANDFARM MONITORING

3.1 Treatment (Tilled) Zone Soil Samples

Per OCD permit requirements, 4-part composite soil samples were collected from cells 1, 3, 4, and 5 treatment (tilled) zones on June 1, 2016. Treatment zone samples were not collect from cell 2 during the second quarter due to no soil being added to the cell since OCD granted approval for adding another lift of contaminated soil. Samples were collect at about 1 foot into the treatment (tilled) zone using a stainless steel trowel. Sample aliquots were immediately placed in pre-cleaned 4-ounce jars, properly labeled, and iced upon collection. The discrete sample locations were recorded with a Trimble® hand held GPS receiver. The samples were shipped via LoneStar Overnight, under chain of custody to DHL Analytical, a National Analytical Laboratory Accreditation Program (NELAP) accredited laboratory located in Round Rock, Texas. The samples were analyzed for benzene, toluene, ethylbenzene and xylene (BTEX), total petroleum hydrocarbons (TPH), total recoverable petroleum hydrocarbons (TRPH) and chloride by EPA SW-846 methods 8021B, 8015, 418.1 and 300, respectively. Table 1 presents the laboratory analytical data summary for the treatment zone samples. Figure 4 presents the treatment zone sample locations. The laboratory report is included in Appendix A.

3.1.1 Organic Sample Results

BTEX constituents were below the analytical method reporting limits (RL), equivalent to the practical quantitation limit (PQL) and closure performance standards in treatment zone samples from cells 1, 3, 4, and 5 on June 1, 2016.

TPH was below the closure performance standard of 500 milligrams per kilogram (mg/Kg) in treatment zone samples from cell 1 (489 mg/Kg) and cell 3 (264 mg/Kg) on June 1, 2016. The closure performance standard was exceeded in treatment zone samples from cell 4 (671 mg/Kg) and cell 5 (914 mg/Kg) on June 1, 2016. TRPH was below the closure performance standard of 1,000 mg/Kg in treatment zone samples from cells 1, 3, 4 and 5 on June 1, 2016.

3.1.2 Chloride Sample Results

Chloride exceeded the closure performance standard (1,000 mg/kg) in treatment zone samples from cell 5 (4,639 mg/kg) during the second quarter 2016.

3.2 Vadose Zone Samples

Vadose zone samples were collected in native soil approximately 2 to 3 feet below cells 1 through 5. The samples were collected with a Terraprobe® direct push rig equipped with a stainless steel core barrel after removing contaminated (treatment zone soil) from the sample locations. The core barrel was equipped with a polyethene liner to minimize cross contamination between samples. The polyethylene liner was replaced between samples. The samples were collected in 4-ounce glass containers that were labeled, chilled in an ice chest and delivered to DHL. The laboratory analyzed the samples by EPA SW-846 method 8021B (BTEX), 8015 (TPH), 418.1 (TRPH) and 300 (chloride). The boreholes were filled with bentonite and locations recorded with the Trimble® GPS receiver. Table 2 presents the laboratory analytical data summary for the vadose zone samples. Figure 4 presents the vadose zone sample locations. Appendix A presents the laboratory reports.

3.2.1 Organic Sample Results

BTEX, TPH and TRPH were below the analytical method RL in vadose samples from cell 1 through 5 on June 1, 2016.

3.2.2 Chloride Sample Results

Chloride in the vadose samples ranged from 98.2 mg/Kg (cell 1) to 882 mg/Kg (cell 5) and exceeded the mean background concentration (5.04 mg/Kg) on June 1, 2016.

4.0 SUMMARY

- BTEX was below the analytical method RL and closure performance standards in treatment zone samples from cells 1 through 5 on June 1, 2016;
- TPH was below the closure performance standard (500 ppm) in treatment zone from cells 1 and 3 on June 1, 2016;
- TPH exceeded the closure performance standard in treatment zone samples from cell 4 (671 mg/Kg) and cell 5 (914 mg/Kg) on June 1, 2016;
- BTEX, TPH and TRPH were below the analytical method RL in vadose zone samples from cells 1 through 5 on June 1, 2016;
- Chloride ranged from 98.2 mg/Kg (cell 1) to 882 mg/Kg (cell 5) in vadose samples and exceeded the mean background concentration (5.04 mg/Kg) on June 1, 2016.

R360 will continue monthly tilling of cell 1, 2, 3, 4, and 5 to promote volatilization and microbial degradation of hydrocarbons in the treatment zone. R360 will notify OCD District 1 and Santa Fe offices at least 24 hours prior to collecting samples during the third (3rd) quarter 2016.

TABLES

Table 1
Treatment Zone Soil Analytical Data Summary
R360 Artesia LLC Landfarm (NM-1-030)
Lea County, New Mexico

| Cell | Date | Depth (feet) | Benzene (mg/Kg) | BTEX (mg/Kg) | GRO (mg/Kg) | DRO (mg/Kg) | ORO (mg/Kg) | TPH (mg/Kg) | TRPH (mg/Kg) | Chloride (mg/Kg) |
|-------------------------|--------------------------|-----------------|----------------------|--------------------|------------------|----------------|----------------|----------------|-----------------|---------------------|
| Permitted Level: | | | | | | | | | | |
| | | | 0.2 | 50 | | | | 500 | 2,500 | 1,000 |
| 1 | 03/16/2016 06/01/2016 | 0 - 1 0 - 1 | <0.00472 <0.00496 | <0.0472 <0.0496 | <0.190 <0.180 | 366 224 | 263 265 | 629 489 | 836 252 | 356 397 |
| 2 | 03/16/2016 06/01/2016 | 0 - 1 0 - 1 | * | * | * | * | * | * | * | * |
| 3 | 03/16/2016 06/01/2016 | 0 - 1 0 - 1 | <0.00454 <0.00436 | <0.0454 <0.0436 | <0.192 <0.186 | 273 147 | 235 118 | 508 265 | 644 291 | 177 334 |
| 4 | 03/16/2016 06/01/2016 | 0 - 1 0 - 1 | <0.00451 <0.00483 | <0.0451 <0.0483 | <0.200 <0.192 | 299 374 | 228 297 | 527 671 | 704 599 | 467 279 |
| 5 | 03/16/2016 06/01/2016 | 0 - 1 0 - 1 | <0.00493 <0.00514 | <0.0493 <0.0514 | <0.186 <0.204 | 737 467 | 669 447 | 1,406 914 | 2,080 498 | 2,100 4,630 |
| 6 | 03/16/2016 06/01/2016 | 0 - 1 0 - 1 | ** ** | ** ** | ** ** | ** ** | ** ** | ** ** | ** ** | ** ** |

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, Texas by EPA SW-846 methods 8021B (BTEX), 8015M (GRO and DRO), 418.1 (TRPH) and 300.0 (chloride)

Results are reported in milligram per Kilograms (mg/Kg) equivalent to parts per million (ppm)

RL: Reporting limit (equivalent to practical quantification limit (PQL))

*Cell approved for additional lift but no soil added to cell at the time of sample collection

**Soil removed from cell and placed as additional layer on Cells 1, 3 and 4

1. <: Less than method reporting limit (equivalent to PQL)

2. Depth in feet within treated soil layer

Table 2
Vadose Zone Soil BTEX and TPH Analytical Data Summary
R360 Artesia LLC Landfarm (NM-1-030)
Lea County, New Mexico

| Cell | Date | Depth (feet) | RL | Benzene (mg/Kg) | RL | Ethylbenzene (mg/Kg) | RL | Toluene (mg/Kg) | RL | Xylenes (mg/Kg) | RL | GRO (mg/Kg) | RL | DRO (mg/Kg) | RL | ORO (mg/Kg) | RL | TPH (mg/Kg) | RL | TRPH (mg/Kg) | RL | Chloride (mg/Kg) | | |
|---|--------------------------|-----------------|--------------------|----------------------|------------------|-------------------------|------------------|--------------------|------------------|--------------------|----------------|------------------|--------------|----------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|---------------------|---|--|
| Background: Mean Concentration: <0.00095 <0.00095 <0.00095 <0.00095 -- -- -- -- -- -- -- -- -- -- -- <4.90 <5.04 | | | | | | | | | | | | | | | | | | | | | | | | |
| Background PQL or RL: 0.0048 0.0048 0.0048 0.0048 -- -- -- -- -- -- -- -- -- -- -- 9.78 5.04 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 03/16/2016 06/01/2016 | 2 - 3 2 - 3 | 0.00483 0.00536 | <0.00483 <0.00536 | 0.0145 0.0161 | <0.0145 <0.0161 | 0.0145 0.0161 | <0.0145 <0.0161 | 0.0145 0.0161 | <0.0145 <0.0161 | 0.213 0.204 | <0.213 <0.204 | 11.0 10.6 | 77.4 <10.6 | 11.0 10.6 | 48.8 <10.6 | 11.0 10.6 | 126.2 <10.6 | 10.9 10.5 | 175 <10.5 | 5.55 51.0 | 133 98.2 | | |
| 2 | 03/16/2016 06/01/2016 | 2 - 3 2 - 3 | 0.00551 0.00558 | <0.00551 <0.00558 | 0.0165 0.0167 | <0.0165 <0.0167 | 0.0165 0.0167 | <0.0165 <0.0167 | 0.0165 0.0167 | <0.0165 <0.0167 | 0.237 0.226 | <0.237 <0.226 | 11.8 10.9 | <11.8 <10.9 | 11.8 10.9 | 4.49 ^j <10.9 | 11.8 10.9 | 4.49 ^j <10.9 | 12.2 11.0 | <12.2 <11.0 | 5.74 54.5 | 14.4 328 | | |
| 3 | 03/16/2016 06/01/2016 | 2 - 3 2 - 3 | 0.00479 0.00592 | <0.00479 <0.00592 | 0.0144 0.0178 | <0.0144 <0.0178 | 0.0144 0.0178 | <0.0144 <0.0178 | 0.0144 0.0178 | <0.0144 <0.0178 | 0.189 0.239 | <0.189 <0.239 | 10.2 11.5 | 15.1 <11.5 | 10.2 11.5 | 11.4 <11.5 | 10.2 11.5 | 26.5 <11.5 | 9.85 11.8 | 9.52 ^m <11.8 | 5.01 54.4 | 21.4 567 | | |
| 4 | 03/16/2016 06/01/2016 | 2 - 3 2 - 3 | 0.00540 0.00484 | <0.00540 <0.00484 | 0.0162 0.0145 | <0.0162 <0.0145 | 0.0162 0.0145 | <0.0162 <0.0145 | 0.0162 0.0145 | <0.0162 <0.0145 | 0.205 0.198 | <0.205 <0.198 | 10.5 9.45 | 98.7 <9.45 | 10.5 9.45 | 82.3 <9.45 | 10.5 9.45 | 181 <9.45 | 10.7 9.95 | 228 <9.95 | 5.31 47.5 | 255 192 | | |
| 5 | 03/16/2016 06/01/2016 | 2 - 3 2 - 3 | 0.00519 0.00497 | <0.00519 <0.00497 | 0.0156 0.0149 | <0.0156 <0.0149 | 0.0156 0.0149 | <0.0156 <0.0149 | 0.0156 0.0149 | <0.0156 <0.0149 | 0.223 0.203 | <0.223 <0.203 | 11.0 10.2 | 203 <10.2 | 11.0 10.2 | 107 <10.2 | 11.0 10.2 | 310 <10.2 | 10.9 10.7 | 287 <10.7 | 529 47.2 | 3,120 882 | | |
| 6 | 03/16/2016 06/01/2016 | 2 - 3 2 - 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 0 | * | * | * | * | * | * | |

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX, Permian Bain Environmental Lab, Midland, TX and Trace Analysis, Inc., Lubbock, TX

BTEX by EPA SW-846 method 8021B (BTEX)

TPH by EPA SW-846 method 8015M (GRO and DRO)

TRPH by EPA SW-846 method 418.1

Results are reported in milligram per Kilograms (mg/Kg).

RL: Reporting limit (equivalent to practical quantification limit (PQL))

1. <: Less than method reporting limit

2. Depth in feet below native ground surface

J: Analyte detected between MDL and RL

FIGURES



Figure 1 - Topographic Map



Figure 2 - Aerial Map

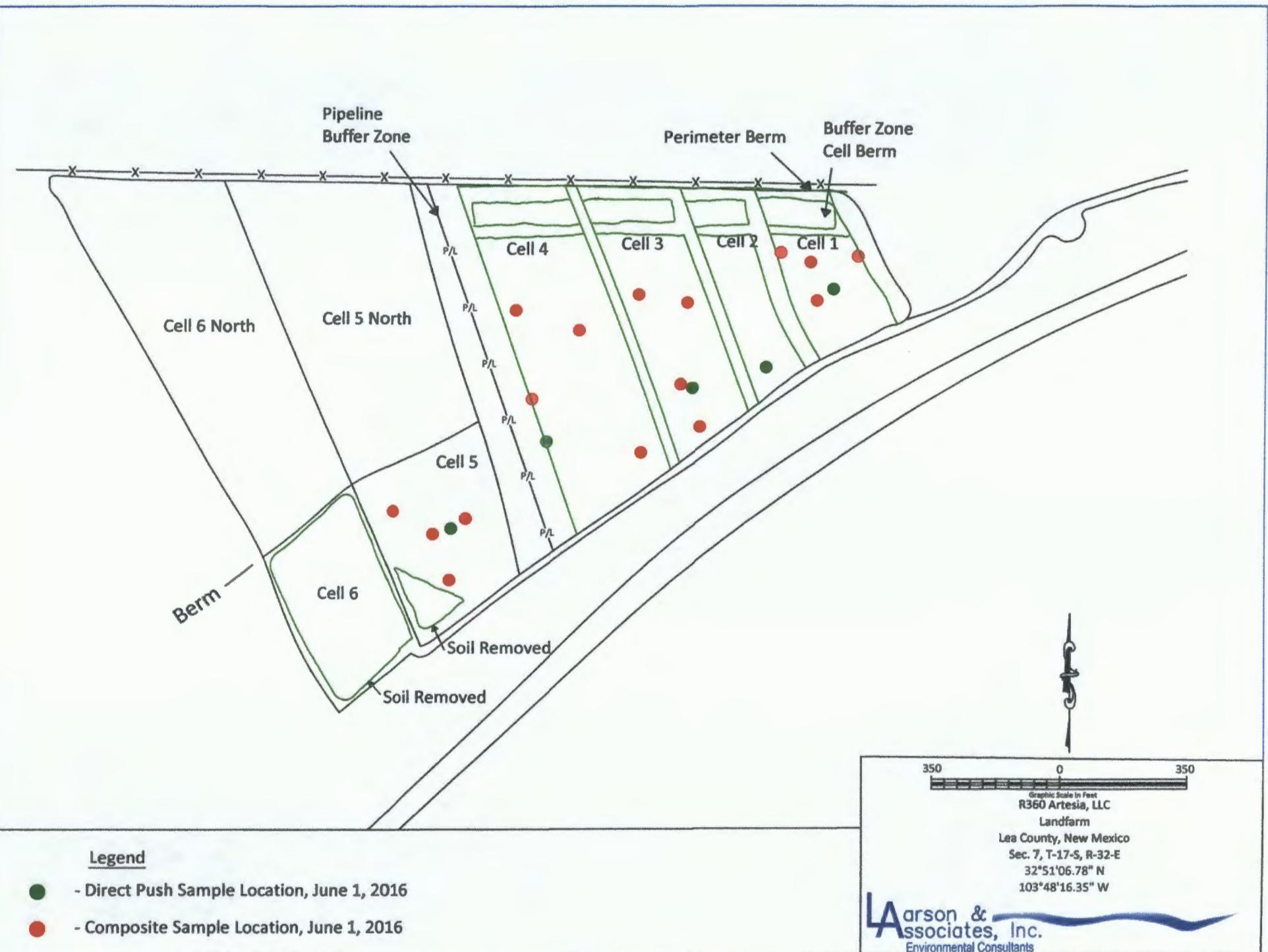


Figure 4 - Site Map Showing Direct Push and Composite Sample Locations, June 1, 2016

APPENDIX A

Laboratory Report



June 15, 2016

Mark Larson
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456
RE: R360 Artesia Landfarm

Order No.: 1606029

Dear Mark Larson:

DHL Analytical, Inc. received 9 sample(s) on 6/3/2016 for the analyses presented in the following report.

Revision Number 1 for Work Order 1606029: This revision consists of changing Sample Identifications and analyte list, per the client's request. Please replace the original Data Report with this revision.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink that reads "John DuPont".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-16-16



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Nº 70828

CHAIN-OF-CUSTODY

| CLIENT: Larson & Associates ADDRESS: 507 N. Marienfeld PHONE: (432) 687-0901 FAX/E-MAIL: DATA REPORTED TO: Mark Larson ADDITIONAL REPORT COPIES TO: Carson Hughes | | | | | | | | DATE: 06/02/2016 PO #: DHL WORK ORDER #: 110060029 PROJECT LOCATION OR NAME: R360 Artesia Landfarm CLIENT PROJECT #: 15-0121-01 COLLECTOR: Travis Williams/Carson Hughes | PAGE / OF / | | | |
|---|-----------|---|---|--------|----------------|-----------------|---|---|------------------|--|-----|-------------|
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | S=SOIL W=WATER A=AIR L=LIQUID SE=SEDIMENT | P=PAINT SL=SLUDGE O=OTHER SO=SOLID | | | | | PRESERVATION | | | | |
| | | | | | | | | HCl | HNO ₃ | NaOH | ICE | UNPRESERVED |
| Field Sample I.D. | DHL Lab # | Date | Time | Matrix | Container Type | # of Containers | | | | | | |
| Comp 1 | 01 | 06/01/16 | 11:45 | soil | glass | 1 | | X | X | X | | |
| COMP 2 | 02 | | 12:00 | | | | | | | | | |
| COMP 4 | 03 | | 12:30 | | | | | | | | | |
| COMP 5 | 04 | | 12:45 | | | | | | | | | |
| DP 5 (2-4) | 05 | | 13:00 | | | | | | | | | |
| DP 4 (2-4) | 06 | | 13:30 | | | | | | | | | |
| DP 3 (2-4) | 07 | | 13:45 | | | | | | | | | |
| PP 2 (2-4) | 08 | | 14:10 | | | | | | | | | |
| DPI (2-4) | 09 | ↓ | 14:30 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| | | | | | | | | | | | | FIELD NOTES |
| ANALYSES BTEX & MTBE <input type="checkbox"/> TPH <input type="checkbox"/> IND <input type="checkbox"/> VOC <input type="checkbox"/> DRO <input type="checkbox"/> METHOD 80211 GRID IMETRIGO <input type="checkbox"/> TPH 1006 <input type="checkbox"/> H2LD 1006 <input type="checkbox"/> VOC 8260/5035 <input type="checkbox"/> VOC 624 <input type="checkbox"/> VOC 8260/5035 <input type="checkbox"/> VOC 8260/5035 <input type="checkbox"/> VOC 8260/5035 <input type="checkbox"/> SLDC 6270 <input type="checkbox"/> PEST/PCB <input type="checkbox"/> 668 PCB <input type="checkbox"/> 6270 PCB <input type="checkbox"/> 8270 O.P. PEST <input type="checkbox"/> 8270 PCB <input type="checkbox"/> 668 PCB <input type="checkbox"/> 8270 PCB <input type="checkbox"/> METALS 8020 <input type="checkbox"/> AMMONIA <input type="checkbox"/> KCNA <input type="checkbox"/> TX11 <input type="checkbox"/> PH HEY CHROM <input type="checkbox"/> ALKALINITY <input type="checkbox"/> DISS. METALS <input type="checkbox"/> TDS <input type="checkbox"/> CHLORIDE <input type="checkbox"/> ANIONS <input type="checkbox"/> VOC <input type="checkbox"/> PESTO <input type="checkbox"/> HER8/3 <input type="checkbox"/> TCLP-SVOC <input type="checkbox"/> TCLP-METALS <input type="checkbox"/> REFL-GD <input type="checkbox"/> THERM <input type="checkbox"/> TDS <input type="checkbox"/> RC10 FLASHPOINT <input type="checkbox"/> DGS <input type="checkbox"/> MOISTURE <input type="checkbox"/> CYANIDE <input type="checkbox"/> TSPH <input type="checkbox"/> TSS <input type="checkbox"/> % MOISTURE <input type="checkbox"/> CYANIDE <input type="checkbox"/> TSPH <input type="checkbox"/> TSS <input type="checkbox"/> % MOISTURE <input type="checkbox"/> CYANIDE <input type="checkbox"/> | | | | | | | | | | | | |
| Chloride by method 300 | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature) <u>Carson Hughes</u> DATE/TIME: 06/01/16 1:30 RECEIVED BY: (Signature) <u>Lorenzo</u> RELINQUISHED BY: (Signature) <u>Carson Hughes</u> DATE/TIME: 06/01/16 1:30 RECEIVED BY: (Signature) <u>Lorenzo</u> RELINQUISHED BY: (Signature) <u>Carson Hughes</u> DATE/TIME: 06/01/16 1:30 RECEIVED BY: (Signature) <u>Lorenzo</u> | | | | | | | | TURN AROUND TIME RUSH <input type="checkbox"/> CALL FIRST 1 DAY <input type="checkbox"/> CALL FIRST 2 DAY <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> | | LABORATORY USE ONLY: RECEIVING TEMP: 4.1 THERM #: 78 CUSTODY SEALS: <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> NOT USED CARRIER: <input checked="" type="checkbox"/> ONE STAR <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> OTHER <input type="checkbox"/> COURIER DELIVERY <input type="checkbox"/> HAND DELIVERED | | |
| <input type="checkbox"/> DHL DISPOSAL @ \$5.00 each <input type="checkbox"/> Return | | | | | | | | 3 | | | | |



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Nº 70828

CHAIN-OF-CUSTODY

| CLIENT: Larson & Associates ADDRESS: 507 N. Main St. PHONE: (423) 827-0701 FAX/E-MAIL: DATA REPORTED TO: Matt Larson ADDITIONAL REPORT COPIES TO: Carson Hough | | | | | | DATE: 06/02/2016 | PAGE 1 OF 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="13">ANALYSES</th> </tr> <tr> <th colspan="13">ATR/MS & MTBE □ IMETHOD 80211</th> </tr> <tr> <th colspan="13">TPH 1005 □ TPH 1006 □ HOLD 1006 □</th> </tr> <tr> <th colspan="13">GRO (METHOD 8015) □ VOC 624 □ DRO (METHOD 8105) □</th> </tr> <tr> <th colspan="13">VOC 8260 □ VOC 8270 □ HOLD PAH □ SVOC 685 □</th> </tr> <tr> <th colspan="13">SVOC 8270 □ PAH 8270 □ PCB 8270 □ PCP 8270 □</th> </tr> <tr> <th colspan="13">PEST 8082 □ PCB 8270 □ PCP 8270 □</th> </tr> <tr> <th colspan="13">8270 O-P PEST □ 825 □ PEST □ PCB 8270 □ PCP 8270 □</th> </tr> <tr> <th colspan="13">821 HERB □ TPHOS, AMMONIA □</th> </tr> <tr> <th colspan="13">METALS 6020 □ METALS 2008 □ DIS. METALS □</th> </tr> <tr> <th colspan="13">ACRA □ XIT □ HERB □</th> </tr> <tr> <th colspan="13">RHQ □ HEK CHROM □ ALKALINITY □ COD □</th> </tr> <tr> <th colspan="13">CHLORIDE □ ANIONS □ VOX □ PEST □ HERB □</th> </tr> <tr> <th colspan="13">TCP □ SVOC □ METALS □ RGA □ % MOISTURE □</th> </tr> <tr> <th colspan="13">RCI □ FLASHPOINT □ DGAS □ PBO □ CYANIDE □</th> </tr> <tr> <th colspan="13">TDS □ TSS □ % □ PBO □ CYANIDE □</th> </tr> <tr> <th colspan="13">TASH □ % □ PBO □ CYANIDE □</th> </tr> <tr> <th colspan="13">DRO □ CH □</th> </tr> </thead></table> | | | | | | | | | | | | | ANALYSES | | | | | | | | | | | | | ATR/MS & MTBE □ IMETHOD 80211 | | | | | | | | | | | | | TPH 1005 □ TPH 1006 □ HOLD 1006 □ | | | | | | | | | | | | | GRO (METHOD 8015) □ VOC 624 □ DRO (METHOD 8105) □ | | | | | | | | | | | | | VOC 8260 □ VOC 8270 □ HOLD PAH □ SVOC 685 □ | | | | | | | | | | | | | SVOC 8270 □ PAH 8270 □ PCB 8270 □ PCP 8270 □ | | | | | | | | | | | | | PEST 8082 □ PCB 8270 □ PCP 8270 □ | | | | | | | | | | | | | 8270 O-P PEST □ 825 □ PEST □ PCB 8270 □ PCP 8270 □ | | | | | | | | | | | | | 821 HERB □ TPHOS, AMMONIA □ | | | | | | | | | | | | | METALS 6020 □ METALS 2008 □ DIS. METALS □ | | | | | | | | | | | | | ACRA □ XIT □ HERB □ | | | | | | | | | | | | | RHQ □ HEK CHROM □ ALKALINITY □ COD □ | | | | | | | | | | | | | CHLORIDE □ ANIONS □ VOX □ PEST □ HERB □ | | | | | | | | | | | | | TCP □ SVOC □ METALS □ RGA □ % MOISTURE □ | | | | | | | | | | | | | RCI □ FLASHPOINT □ DGAS □ PBO □ CYANIDE □ | | | | | | | | | | | | | TDS □ TSS □ % □ PBO □ CYANIDE □ | | | | | | | | | | | | | TASH □ % □ PBO □ CYANIDE □ | | | | | | | | | | | | | DRO □ CH □ | | | | | | | | | | | | |
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| DRO □ CH □ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FIELD NOTES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comp 1 | 30/01/16 | 11:45 | SWL | Glass | 1 | X | X | X | | | | | X | X | Chloride by method 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comp 2 | | 12:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comp 3 | | 12:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comp 4 | | 12:45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comp 5 | | 12:45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DP 5 (2-#) | | 13:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DP 4 (2-#) | | 13:30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DP 3 (2-#) | | 13:45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DP 2 (2-#) | | 14:10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DP 1 (2-#) | | 14:30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| RELINQUISHED BY: (Signature) <i>Carson Hough</i> DATE/TIME 06/02/16 9:30 RECEIVED BY: (Signature) | | | | | | TURN AROUND TIME | | | | | | | LABORATORY USE ONLY: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature) | | | | | | RUSH <input type="checkbox"/> CALL FIRST | | | | | | | RECEIVING TEMP: _____ THERM #: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature) | | | | | | 1 DAY <input type="checkbox"/> CALL FIRST | | | | | | | CUSTODY SEALS: <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input type="checkbox"/> NOT USED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature) | | | | | | 2 DAY <input type="checkbox"/> | | | | | | | CARRIER: <input type="checkbox"/> LONE STAR <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> OTHER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature) | | | | | | NORMAL <input checked="" type="checkbox"/> | | | | | | | <input type="checkbox"/> COURIER DELIVERY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature) | | | | | | OTHER <input type="checkbox"/> | | | | | | | <input type="checkbox"/> HAND DELIVERED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> DHL DISPOSAL @ \$5.00 each <input type="checkbox"/> Return | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



WWW.LSO.COM
Questions? Call 800-800-8984

Airbill No. 49614865

49614865

01/001-2012 Long Star Division

| | | | |
|---|-------|--|-------|
| To: J. Barker | | From: LSO | |
| Print Name (Person) | | Phone (Important) | |
| Company Name | | Print Name (Person) | |
| DHL Analytical | | LARSON & ASSOCIATES | |
| Street Address (No P.O. Box or P.O. Box Zip Code/Delivery) | | Street Address | |
| 2300 Pebble Creek Drive | | 507 NORTH MARKETLAND | |
| Suite / Floor | | Bldg / Floor | |
| E | | 205 | |
| City | State | City | State |
| Riverside, CA | CA | WILMINGTON | CA |
| Zip | | Zip | 79701 |
| 3. Service: | | Weight: 30 | |
| Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online. | | | |
| <input checked="" type="checkbox"/> LSO Priority Overnight* <small>By 8:30 p.m. to most cities</small> | | <input type="checkbox"/> LSO Ground <input type="checkbox"/> LSO Saturday* <input type="checkbox"/> Other _____ | |
| <small>*Check commitment prices and availability at www.lso.com</small> | | | |
| <input type="checkbox"/> LSO Early Overnight* <small>By 8:30 a.m. select cities</small> | | | |
| <input type="checkbox"/> LSO Economy Next Day* <small>By 3 p.m. to most cities</small> | | | |
| <input type="checkbox"/> LSO 2nd Day* | | <small>Assumed LSO Priority Overnight service unless otherwise noted.</small> | |
| <input type="checkbox"/> Deliver Without Delivery Signature (See Limits of Liability below) | | | |
| Release Signature L X W X H | | | |
| <small>LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value to us in writing. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damage. You assume responsibility for the package without obtaining a delivery signature. You release us from liability if you sign this document.</small> | | | |
| 4. Package: <input type="checkbox"/> FOR DRIVER USE ONLY | | | |
| <small>Your Company's Billing Preference Information</small> | | | |
| <small>Ship Date: (mm/dd/yy)</small> | | | |
| <small>5. Payment:</small> | | | |
| <small>Driver Number: 1018</small> | | | |
| <small><input type="checkbox"/> Check here if LSO Scripts are used with LSO Ground Service.</small> | | | |
| <small>Pick-up Location: 1018</small> | | | |
| <small>Date: 01/15/06</small> | | | |
| <small>Time: _____ City Code: _____</small> | | | |

CUSTODY SEAL

DATE: **6-02-2010**

SIGNATURE: **[Signature]**

QEC

Quality Environmental Containers

800-255-3950 • 304-255-3900

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name Larson & Associates

Date Received: 6/3/2016

Work Order Number 1506029

Received by JB

Checklist completed by:

J. Jones
Signature

6/3/2016

Date

Reviewed by

SS

6/3/2016

Initials

Date

Carrier name LoneStar

| | | | |
|---|---|-----------------------------|--|
| Shipping container/coolier in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/coolier? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 4.2 °C |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH<2 acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # |
| | Adjusted? | Checked by | |
| Water - ph>9 (S) or ph>12 (CN) acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # |
| | Adjusted? | Checked by | |

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

DHL Analytical, Inc.

Date: 15-Jun-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1606029

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method M8015D - DRO/ORO Analysis
Method M8015V - GRO Analysis
Method E418.1 - Total Recoverable Petroleum Hydrocarbons Analysis (This Parameter is not NELAC Certified)
Method SW8021B - Volatile Organics by GC Analysis
Method E300 - Anions Analysis
Method D2216 - Percent Moisture Analysis

LOG IN

The samples were received and log-in performed on 6/3/2016. A total of 9 samples were received and analyzed. The samples arrived in good condition and were properly packaged. The samples were collected in Mountain Standard Time.

DRO/ORO ANALYSIS

For DRO/ORO Analysis, the recovery of surrogate Isopropylbenzene for three samples was below the method control limits. These are flagged accordingly in the Analytical Data Report. The remaining surrogate for these samples was within method control limits. No further corrective action was taken.

For DRO/ORO Analysis, the recovery of surrogate Octacosane for four samples was above the method control limits. These are flagged accordingly in the Analytical Data Report. The remaining surrogate for these samples was within method control limits. No further corrective action was taken.

VOLATILE ORGANICS BY GC AND GRO ANALYSIS

As per the TCEQ-NELAP accreditation requirement the following must be noted: NELAP requires a note that if 5035 sampling method for VOCs and GRO is not utilized, the results of samples collected in bulk containers for low level volatile components may be compromised and state environmental regulatory agencies will reject data if submitted for remediation projects. The client has been notified and has requested the Laboratory to proceed with analysis.

DHL Analytical, Inc.

Date: 15-Jun-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1606029

Work Order Sample Summary

| Lab Smp ID | Client Sample ID | Tag Number | Date Collected | Date Recvd |
|-------------------|-------------------------|-------------------|-----------------------|-------------------|
| 1606029-01 | Compl | | 06/01/16 11:45 AM | 6/3/2016 |
| 1606029-02 | Comp3 | | 06/01/16 12:00 PM | 6/3/2016 |
| 1606029-03 | Comp4 | | 06/01/16 12:30 PM | 6/3/2016 |
| 1606029-04 | Comp5 | | 06/01/16 12:45 PM | 6/3/2016 |
| 1606029-05 | DP5 (2-3) | | 06/01/16 01:00 PM | 6/3/2016 |
| 1606029-06 | DP4 (2-3) | | 06/01/16 01:30 PM | 6/3/2016 |
| 1606029-07 | DP3 (2-3) | | 06/01/16 01:45 PM | 6/3/2016 |
| 1606029-08 | DP2 (2-3) | | 06/01/16 02:10 PM | 6/3/2016 |
| 1606029-09 | DP1 (2-3) | | 06/01/16 02:30 PM | 6/3/2016 |

Lab Order: 1606029
Client: Larson & Associates
Project: R360 Artesia Landfarm

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|------------------------------|-------------------|----------|
| 1606029-01A | Comp1 | 06/01/16 11:45 AM | Soil | E300 | Anion Prep | 06/08/16 09:25 AM | 75507 |
| | Comp1 | 06/01/16 11:45 AM | Soil | D2216 | Moisture Preparation | 06/08/16 12:17 PM | 75520 |
| | Comp1 | 06/01/16 11:45 AM | Soil | SW5030C | Purge and Trap Soils GC | 06/08/16 10:07 AM | 75517 |
| | Comp1 | 06/01/16 11:45 AM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 06/07/16 09:41 AM | 75489 |
| | Comp1 | 06/01/16 11:45 AM | Soil | SW3550C | Soil Prep Sonication: DRO | 06/08/16 09:08 AM | 75506 |
| | Comp1 | 06/01/16 11:45 AM | Soil | SW3550C | Soil Prep Sonication: TRPH | 06/14/16 10:16 AM | 75629 |
| 1606029-02A | Comp3 | 06/01/16 12:00 PM | Soil | E300 | Anion Prep | 06/08/16 09:25 AM | 75507 |
| | Comp3 | 06/01/16 12:00 PM | Soil | D2216 | Moisture Preparation | 06/08/16 12:17 PM | 75520 |
| | Comp3 | 06/01/16 12:00 PM | Soil | SW5030C | Purge and Trap Soils GC | 06/08/16 10:07 AM | 75517 |
| | Comp3 | 06/01/16 12:00 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 06/07/16 09:41 AM | 75489 |
| | Comp3 | 06/01/16 12:00 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 06/08/16 09:08 AM | 75506 |
| | Comp3 | 06/01/16 12:00 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 06/14/16 10:16 AM | 75629 |
| 1606029-03A | Comp4 | 06/01/16 12:30 PM | Soil | E300 | Anion Prep | 06/08/16 09:25 AM | 75507 |
| | Comp4 | 06/01/16 12:30 PM | Soil | D2216 | Moisture Preparation | 06/08/16 12:17 PM | 75520 |
| | Comp4 | 06/01/16 12:30 PM | Soil | SW5030C | Purge and Trap Soils GC | 06/08/16 10:07 AM | 75517 |
| | Comp4 | 06/01/16 12:30 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 06/07/16 09:41 AM | 75489 |
| | Comp4 | 06/01/16 12:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 06/08/16 09:08 AM | 75506 |
| | Comp4 | 06/01/16 12:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 06/08/16 09:08 AM | 75506 |
| 1606029-04A | Comp5 | 06/01/16 12:45 PM | Soil | E300 | Anion Prep | 06/08/16 09:25 AM | 75507 |
| | Comp5 | 06/01/16 12:45 PM | Soil | E300 | Anion Prep | 06/08/16 09:25 AM | 75507 |
| | Comp5 | 06/01/16 12:45 PM | Soil | D2216 | Moisture Preparation | 06/08/16 12:17 PM | 75520 |
| | Comp5 | 06/01/16 12:45 PM | Soil | SW5030C | Purge and Trap Soils GC | 06/08/16 10:07 AM | 75517 |
| | Comp5 | 06/01/16 12:45 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 06/07/16 09:41 AM | 75489 |
| | Comp5 | 06/01/16 12:45 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 06/08/16 09:08 AM | 75506 |
| 1606029-05A | Comp5 | 06/01/16 12:45 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 06/08/16 09:08 AM | 75506 |
| | Comp5 | 06/01/16 12:45 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 06/14/16 10:16 AM | 75629 |
| | DP5 (2-3) | 06/01/16 01:00 PM | Soil | E300 | Anion Prep | 06/08/16 09:25 AM | 75507 |

Lab Order: 1606029
Client: Larson & Associates
Project: R360 Artesia Landfarm

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|------------------------------|-------------------|----------|
| 1606029-05A | DP5 (2-3) | 06/01/16 01:00 PM | Soil | D2216 | Moisture Preparation | 06/08/16 12:17 PM | 75520 |
| | DP5 (2-3) | 06/01/16 01:00 PM | Soil | SW5030C | Purge and Trap Soils GC | 06/08/16 10:07 AM | 75517 |
| | DP5 (2-3) | 06/01/16 01:00 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 06/07/16 09:41 AM | 75489 |
| | DP5 (2-3) | 06/01/16 01:00 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 06/08/16 09:08 AM | 75506 |
| | DP5 (2-3) | 06/01/16 01:00 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 06/14/16 10:16 AM | 75629 |
| | DP4 (2-3) | 06/01/16 01:30 PM | Soil | E300 | Anion Prep | 06/08/16 09:25 AM | 75507 |
| 1606029-06A | DP4 (2-3) | 06/01/16 01:30 PM | Soil | D2216 | Moisture Preparation | 06/08/16 12:17 PM | 75520 |
| | DP4 (2-3) | 06/01/16 01:30 PM | Soil | SW5030C | Purge and Trap Soils GC | 06/08/16 10:07 AM | 75517 |
| | DP4 (2-3) | 06/01/16 01:30 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 06/07/16 09:41 AM | 75489 |
| | DP4 (2-3) | 06/01/16 01:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 06/08/16 09:08 AM | 75506 |
| | DP4 (2-3) | 06/01/16 01:30 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 06/14/16 10:16 AM | 75629 |
| | DP3 (2-3) | 06/01/16 01:45 PM | Soil | E300 | Anion Prep | 06/08/16 09:25 AM | 75507 |
| 1606029-07A | DP3 (2-3) | 06/01/16 01:45 PM | Soil | D2216 | Moisture Preparation | 06/08/16 12:17 PM | 75520 |
| | DP3 (2-3) | 06/01/16 01:45 PM | Soil | SW5030C | Purge and Trap Soils GC | 06/08/16 10:07 AM | 75517 |
| | DP3 (2-3) | 06/01/16 01:45 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 06/07/16 09:41 AM | 75489 |
| | DP3 (2-3) | 06/01/16 01:45 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 06/08/16 09:08 AM | 75506 |
| | DP3 (2-3) | 06/01/16 01:45 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 06/14/16 10:16 AM | 75629 |
| | DP2 (2-3) | 06/01/16 02:10 PM | Soil | E300 | Anion Prep | 06/08/16 09:25 AM | 75507 |
| 1606029-08A | DP2 (2-3) | 06/01/16 02:10 PM | Soil | D2216 | Moisture Preparation | 06/08/16 12:17 PM | 75520 |
| | DP2 (2-3) | 06/01/16 02:10 PM | Soil | SW5030C | Purge and Trap Soils GC | 06/08/16 10:07 AM | 75517 |
| | DP2 (2-3) | 06/01/16 02:10 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 06/07/16 09:41 AM | 75489 |
| | DP2 (2-3) | 06/01/16 02:10 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 06/08/16 09:08 AM | 75506 |
| | DP2 (2-3) | 06/01/16 02:10 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 06/14/16 10:16 AM | 75629 |
| | DP1 (2-3) | 06/01/16 02:30 PM | Soil | E300 | Anion Prep | 06/08/16 09:25 AM | 75507 |
| 1606029-09A | DP1 (2-3) | 06/01/16 02:30 PM | Soil | D2216 | Moisture Preparation | 06/08/16 12:17 PM | 75520 |
| | DP1 (2-3) | 06/01/16 02:30 PM | Soil | SW5030C | Purge and Trap Soils GC | 06/08/16 10:07 AM | 75517 |
| | DP1 (2-3) | 06/01/16 02:30 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 06/07/16 09:41 AM | 75489 |
| | DP1 (2-3) | 06/01/16 02:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 06/08/16 09:08 AM | 75506 |
| | DP1 (2-3) | 06/01/16 02:30 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 06/14/16 10:16 AM | 75629 |

DHL Analytical, Inc.

15-Jun-16

Lab Order: 1606029
Client: Larson & Associates
Project: R360 Artesia Landfarm

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|------------------|-------------------------|------------------------|---------------|--------------------|----------------------------|-------------------|-----------------|
| 1606029-09A | DPI (2-3) | 06/01/16 02:30 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 06/14/16 10:16 AM | 75629 |

Lab Order: 1606029
Client: Larson & Associates
Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|------------------------------|----------|----------|-------------------|----------------|
| 1606029-01A | Comp1 | Soil | E300 | Anions by IC method - Soil | 75507 | 10 | 06/08/16 11:45 AM | IC4_160608A |
| | Comp1 | Soil | D2216 | Percent Moisture | 75520 | 1 | 06/09/16 08:50 AM | PMOIST_160608A |
| | Comp1 | Soil | M8015D | TPH Extractable by GC - Soil | 75506 | 1 | 06/09/16 12:02 PM | GC15_160609A |
| | Comp1 | Soil | M8015V | TPH Purgeable by GC - Soil | 75489 | 1 | 06/07/16 11:45 AM | GC4_160607A |
| | Comp1 | Soil | E418.1 | TRPH | 75629 | 1 | 06/14/16 10:34 AM | IR207_160614A |
| | Comp1 | Soil | SW8021B | Volatile Organics by GC | 75517 | 1 | 06/08/16 12:04 PM | GC4_160608A |
| | Comp3 | Soil | E300 | Anions by IC method - Soil | 75507 | 10 | 06/08/16 12:00 PM | IC4_160608A |
| 1606029-02A | Comp3 | Soil | D2216 | Percent Moisture | 75520 | 1 | 06/09/16 08:50 AM | PMOIST_160608A |
| | Comp3 | Soil | M8015D | TPH Extractable by GC - Soil | 75506 | 1 | 06/09/16 11:44 AM | GC15_160609A |
| | Comp3 | Soil | M8015V | TPH Purgeable by GC - Soil | 75489 | 1 | 06/07/16 12:09 PM | GC4_160607A |
| | Comp3 | Soil | E418.1 | TRPH | 75629 | 1 | 06/14/16 10:34 AM | IR207_160614A |
| | Comp3 | Soil | SW8021B | Volatile Organics by GC | 75517 | 1 | 06/08/16 12:29 PM | GC4_160608A |
| | Comp4 | Soil | E300 | Anions by IC method - Soil | 75507 | 10 | 06/08/16 12:15 PM | IC4_160608A |
| | Comp4 | Soil | D2216 | Percent Moisture | 75520 | 1 | 06/09/16 08:50 AM | PMOIST_160608A |
| 1606029-03A | Comp4 | Soil | M8015D | TPH Extractable by GC - Soil | 75506 | 1 | 06/09/16 11:53 AM | GC15_160609A |
| | Comp4 | Soil | M8015D | TPH Extractable by GC - Soil | 75506 | 2 | 06/09/16 02:15 PM | GC15_160609A |
| | Comp4 | Soil | M8015V | TPH Purgeable by GC - Soil | 75489 | 1 | 06/07/16 12:33 PM | GC4_160607A |
| | Comp4 | Soil | E418.1 | TRPH | 75629 | 10 | 06/14/16 10:34 AM | IR207_160614A |
| | Comp4 | Soil | SW8021B | Volatile Organics by GC | 75517 | 1 | 06/08/16 12:54 PM | GC4_160608A |
| | Comp5 | Soil | E300 | Anions by IC method - Soil | 75507 | 10 | 06/08/16 12:30 PM | IC4_160608A |
| | Comp5 | Soil | E300 | Anions by IC method - Soil | 75507 | 100 | 06/08/16 02:40 PM | IC4_160608A |
| 1606029-04A | Comp5 | Soil | D2216 | Percent Moisture | 75520 | 1 | 06/09/16 08:50 AM | PMOIST_160608A |
| | Comp5 | Soil | M8015D | TPH Extractable by GC - Soil | 75506 | 1 | 06/09/16 12:11 PM | GC15_160609A |
| | Comp5 | Soil | M8015D | TPH Extractable by GC - Soil | 75506 | 2 | 06/09/16 02:06 PM | GC15_160609A |
| | Comp5 | Soil | M8015V | TPH Purgeable by GC - Soil | 75489 | 1 | 06/07/16 12:57 PM | GC4_160607A |
| | Comp5 | Soil | E418.1 | TRPH | 75629 | 10 | 06/14/16 10:34 AM | IR207_160614A |
| | Comp5 | Soil | SW8021B | Volatile Organics by GC | 75517 | 1 | 06/08/16 01:18 PM | GC4_160608A |
| | DPS (2-3) | Soil | E300 | Anions by IC method - Soil | 75507 | 10 | 06/08/16 12:45 PM | IC4_160608A |

Lab Order: 1606029
Client: Larson & Associates
Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|------------------------------|----------|----------|-------------------|----------------|
| 1606029-05A | DP5 (2-3) | Soil | D2216 | Percent Moisture | 75520 | 1 | 06/09/16 08:50 AM | PMOIST_160608A |
| | DP5 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 75506 | 1 | 06/09/16 10:41 AM | GC15_160609A |
| | DP5 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 75489 | 1 | 06/07/16 01:21 PM | GC4_160607A |
| | DP5 (2-3) | Soil | E418.1 | TRPH | 75629 | 1 | 06/14/16 10:34 AM | IR207_160614A |
| | DP5 (2-3) | Soil | SW8021B | Volatile Organics by GC | 75517 | 1 | 06/08/16 01:43 PM | GC4_160608A |
| 1606029-06A | DP4 (2-3) | Soil | E300 | Anions by IC method - Soil | 75507 | 10 | 06/08/16 01:00 PM | IC4_160608A |
| | DP4 (2-3) | Soil | D2216 | Percent Moisture | 75520 | 1 | 06/09/16 08:50 AM | PMOIST_160608A |
| | DP4 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 75506 | 1 | 06/09/16 10:50 AM | GC15_160609A |
| | DP4 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 75489 | 1 | 06/07/16 01:45 PM | GC4_160607A |
| | DP4 (2-3) | Soil | E418.1 | TRPH | 75629 | 1 | 06/14/16 10:34 AM | IR207_160614A |
| 1606029-07A | DP3 (2-3) | Soil | E300 | Anions by IC method - Soil | 75507 | 10 | 06/08/16 01:15 PM | IC4_160608A |
| | DP3 (2-3) | Soil | D2216 | Percent Moisture | 75520 | 1 | 06/09/16 08:50 AM | PMOIST_160608A |
| | DP3 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 75506 | 1 | 06/09/16 10:59 AM | GC15_160609A |
| | DP3 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 75489 | 1 | 06/07/16 02:09 PM | GC4_160607A |
| | DP3 (2-3) | Soil | E418.1 | TRPH | 75629 | 1 | 06/14/16 10:34 AM | IR207_160614A |
| 1606029-08A | DP2 (2-3) | Soil | E300 | Anions by IC method - Soil | 75507 | 10 | 06/08/16 01:30 PM | IC4_160608A |
| | DP2 (2-3) | Soil | D2216 | Percent Moisture | 75520 | 1 | 06/09/16 08:50 AM | PMOIST_160608A |
| | DP2 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 75506 | 1 | 06/09/16 11:26 AM | GC15_160609A |
| | DP2 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 75489 | 1 | 06/07/16 02:33 PM | GC4_160607A |
| | DP2 (2-3) | Soil | E418.1 | TRPH | 75629 | 1 | 06/14/16 10:34 AM | IR207_160614A |
| 1606029-09A | DP1 (2-3) | Soil | SW8021B | Volatile Organics by GC | 75517 | 1 | 06/08/16 02:56 PM | GC4_160608A |
| | DP1 (2-3) | Soil | E300 | Anions by IC method - Soil | 75507 | 10 | 06/08/16 01:45 PM | IC4_160608A |
| | DP1 (2-3) | Soil | D2216 | Percent Moisture | 75520 | 1 | 06/09/16 08:50 AM | PMOIST_160608A |
| | DP1 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 75506 | 1 | 06/09/16 11:35 AM | GC15_160609A |
| | DP1 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 75489 | 1 | 06/07/16 02:57 PM | GC4_160607A |
| | DP1 (2-3) | Soil | E418.1 | TRPH | 75629 | 1 | 06/14/16 10:34 AM | IR207_160614A |

DHL Analytical, Inc.

15-Jun-16

Lab Order: 1606029
Client: Larson & Associates
Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|-------------------------|----------|----------|-------------------|-------------|
| 1606029-09A | DPI (2-3) | Soil | SW8021B | Volatile Organics by GC | 75517 | 1 | 06/08/16 03:20 PM | GC4_160608A |

DHL Analytical, Inc.

Date: 15-Jun-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1606029

Client Sample ID: Compl
Lab ID: 1606029-01
Collection Date: 06/01/16 11:45 AM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 224 | 10.0 | 10.0 | | mg/Kg-dry | 1 | 06/09/16 12:02 PM |
| TPH-ORO >C28-C35 | 265 | 10.0 | 10.0 | | mg/Kg-dry | 1 | 06/09/16 12:02 PM |
| Surr: Isopropylbenzene | 81.3 | 0 | 47-142 | %REC | | 1 | 06/09/16 12:02 PM |
| Surr: Octacosane | 275 | 0 | 25-162 | s | %REC | 1 | 06/09/16 12:02 PM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | | | | | | | |
| | <0.180 | 0.0900 | 0.180 | | mg/Kg-dry | 1 | 06/07/16 11:45 AM |
| Surr: Tetrachlorethene | 116 | 0 | 70-134 | %REC | | 1 | 06/07/16 11:45 AM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| SW8021B | | | | | | | |
| Benzene | <0.00496 | 0.00298 | 0.00496 | | mg/Kg-dry | 1 | 06/08/16 12:04 PM |
| Ethylbenzene | <0.0149 | 0.00496 | 0.0149 | | mg/Kg-dry | 1 | 06/08/16 12:04 PM |
| Toluene | <0.0149 | 0.00496 | 0.0149 | | mg/Kg-dry | 1 | 06/08/16 12:04 PM |
| Xylenes, Total | <0.0149 | 0.00496 | 0.0149 | | mg/Kg-dry | 1 | 06/08/16 12:04 PM |
| Surr: Tetrachloroethene | 107 | 0 | 79-135 | %REC | | 1 | 06/08/16 12:04 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 252 | 4.89 | 9.79 | N | mg/Kg-dry | 1 | 06/14/16 10:34 AM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| E300 | | | | | | | |
| Chloride | 397 | 46.9 | 46.9 | | mg/Kg-dry | 10 | 06/08/16 11:45 AM |
| PERCENT MOISTURE | | | | | | | |
| D2216 | | | | | | | |
| Percent Moisture | 2.51 | 0 | 0 | | WT% | 1 | 06/09/16 08:50 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
MDL: Method Detection Limit
RL: Reporting Limit
N: Parameter not NELAC certified

B: Analyte detected in the associated Method Blank
DF: Dilution Factor
J: Analyte detected between MDL and RL
ND: Not Detected at the Method Detection Limit
S: Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Jun-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1606029

Client Sample ID: Comp3
Lab ID: 1606029-02
Collection Date: 06/01/16 12:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 147 | 10.1 | 10.1 | | mg/Kg-dry | 1 | 06/09/16 11:44 AM |
| TPH-ORO >C28-C35 | 118 | 10.1 | 10.1 | | mg/Kg-dry | 1 | 06/09/16 11:44 AM |
| Surr: Isopropylbenzene | 75.5 | 0 | 47-142 | %REC | | 1 | 06/09/16 11:44 AM |
| Surr: Octacosane | 189 | 0 | 25-162 | S | %REC | 1 | 06/09/16 11:44 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| M8015D | | | | | | | |
| Gasoline Range Organics | <0.186 | 0.0931 | 0.186 | | mg/Kg-dry | 1 | 06/07/16 12:09 PM |
| Surr: Tetrachlorethene | 111 | 0 | 70-134 | | %REC | 1 | 06/07/16 12:09 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| SW8021B | | | | | | | |
| Benzene | <0.00436 | 0.00262 | 0.00436 | | mg/Kg-dry | 1 | 06/08/16 12:29 PM |
| Ethylbenzene | <0.0131 | 0.00436 | 0.0131 | | mg/Kg-dry | 1 | 06/08/16 12:29 PM |
| Toluene | <0.0131 | 0.00436 | 0.0131 | | mg/Kg-dry | 1 | 06/08/16 12:29 PM |
| Xylenes, Total | <0.0131 | 0.00436 | 0.0131 | | mg/Kg-dry | 1 | 06/08/16 12:29 PM |
| Surr: Tetrachloroethene | 99.6 | 0 | 79-135 | | %REC | 1 | 06/08/16 12:29 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 291 | 4.83 | 9.65 | N | mg/Kg-dry | 1 | 06/14/16 10:34 AM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| E300 | | | | | | | |
| Chloride | 334 | 45.5 | 45.5 | | mg/Kg-dry | 10 | 06/08/16 12:00 PM |
| PERCENT MOISTURE | | | | | | | |
| D2216 | | | | | | | |
| Percent Moisture | 1.50 | 0 | 0 | | WT% | 1 | 06/09/16 08:50 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.

Date: 15-Jun-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1606029

Client Sample ID: Comp4
Lab ID: 1606029-03
Collection Date: 06/01/16 12:30 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|----------------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | M8015D | | | | | Analyst: AV |
| TPH-DRO C10-C28 | 374 | 19.9 | 19.9 | | mg/Kg-dry | 2 | 06/09/16 02:15 PM |
| TPH-ORO >C28-C35 | 297 | 19.9 | 19.9 | | mg/Kg-dry | 2 | 06/09/16 02:15 PM |
| Surr: Isopropylbenzene | 73.7 | 0 | 47-142 | | %REC | 2 | 06/09/16 02:15 PM |
| Surr: Octacosane | 305 | 0 | 25-162 | S | %REC | 2 | 06/09/16 02:15 PM |
| TPH PURGEABLE BY GC - SOIL | | M8015V | | | | | Analyst: AV |
| Gasoline Range Organics | <0.192 | 0.0960 | 0.192 | | mg/Kg-dry | 1 | 06/07/16 12:33 PM |
| Surr: Tetrachloroethene | 109 | 0 | 70-134 | | %REC | 1 | 06/07/16 12:33 PM |
| VOLATILE ORGANICS BY GC | | SW8021B | | | | | Analyst: BJT |
| Benzene | <0.00483 | 0.00290 | 0.00483 | | mg/Kg-dry | 1 | 06/08/16 12:54 PM |
| Ethylbenzene | <0.0145 | 0.00483 | 0.0145 | | mg/Kg-dry | 1 | 06/08/16 12:54 PM |
| Toluene | <0.0145 | 0.00483 | 0.0145 | | mg/Kg-dry | 1 | 06/08/16 12:54 PM |
| Xylenes, Total | <0.0145 | 0.00483 | 0.0145 | | mg/Kg-dry | 1 | 06/08/16 12:54 PM |
| Surr: Tetrachloroethene | 98.4 | 0 | 79-135 | | %REC | 1 | 06/08/16 12:54 PM |
| TRPH | | E418.1 | | | | | Analyst: DEW |
| Petroleum Hydrocarbons, TR | 599 | 51.0 | 102 | N | mg/Kg-dry | 10 | 06/14/16 10:34 AM |
| ANIONS BY IC METHOD - SOIL | | E300 | | | | | Analyst: AV |
| Chloride | 279 | 46.3 | 46.3 | | mg/Kg-dry | 10 | 06/08/16 12:15 PM |
| PERCENT MOISTURE | | D2216 | | | | | Analyst: WB |
| Percent Moisture | 2.05 | 0 | 0 | | WT% | 1 | 06/09/16 08:50 AM |

| | | |
|--------------------|-------------------------------|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level |
| | C | Sample Result or QC discussed in the Case Narrative |
| | E | TPH pattern not Gas or Diesel Range Pattern |
| MDL | Method Detection Limit | |
| RL | Reporting Limit | |
| N | Parameter not NELAC certified | |

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL.
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Jun-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1606029

Client Sample ID: Comp5
Lab ID: 1606029-04
Collection Date: 06/01/16 12:45 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|-----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 467 | 20.6 | 20.6 | | mg/Kg-dry | 2 | 06/09/16 02:06 PM |
| TPH-ORO >C28-C35 | 447 | 20.6 | 20.6 | | mg/Kg-dry | 2 | 06/09/16 02:06 PM |
| Surr: Isopropylbenzene | 72.1 | 0 | 47-142 | %REC | | 2 | 06/09/16 02:06 PM |
| Surr: Octacosane | 464 | 0 | 25-162 | s | %REC | 2 | 06/09/16 02:06 PM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.204 | 0.102 | 0.204 | | mg/Kg-dry | 1 | 06/07/16 12:57 PM |
| Surr: Tetrachlorethene | 105 | 0 | 70-134 | %REC | | 1 | 06/07/16 12:57 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| SW8021B | | | | | | | |
| Benzene | <0.00514 | 0.00309 | 0.00514 | | mg/Kg-dry | 1 | 06/08/16 01:18 PM |
| Ethylbenzene | <0.0154 | 0.00514 | 0.0154 | | mg/Kg-dry | 1 | 06/08/16 01:18 PM |
| Toluene | <0.0154 | 0.00514 | 0.0154 | | mg/Kg-dry | 1 | 06/08/16 01:18 PM |
| Xylenes, Total | <0.0154 | 0.00514 | 0.0154 | | mg/Kg-dry | 1 | 06/08/16 01:18 PM |
| Surr: Tetrachloroethene | 87.2 | 0 | 79-135 | %REC | | 1 | 06/08/16 01:18 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 498 | 51.9 | 104 | N | mg/Kg-dry | 10 | 06/14/16 10:34 AM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| E300 | | | | | | | |
| Chloride | 4630 | 485 | 485 | | mg/Kg-dry | 100 | 06/08/16 02:40 PM |
| PERCENT MOISTURE | | | | | | | |
| D2216 | | | | | | | |
| Percent Moisture | 3.92 | 0 | 0 | | WT% | 1 | 06/09/16 08:50 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Jun-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1606029

Client Sample ID: DP5 (2-3)
Lab ID: 1606029-05
Collection Date: 06/01/16 01:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | <10.2 | 10.2 | 10.2 | | mg/Kg-dry | 1 | 06/09/16 10:41 AM |
| TPH-ORO >C28-C35 | <10.2 | 10.2 | 10.2 | | mg/Kg-dry | 1 | 06/09/16 10:41 AM |
| Surr: Isopropylbenzene | 27.8 | 0 | 47-142 | S | %REC | 1 | 06/09/16 10:41 AM |
| Surr: Octacosane | 79.9 | 0 | 25-162 | | %REC | 1 | 06/09/16 10:41 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.203 | 0.101 | 0.203 | | mg/Kg-dry | 1 | 06/07/16 01:21 PM |
| Surr: Tetrachlorethene | 111 | 0 | 70-134 | | %REC | 1 | 06/07/16 01:21 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| SW8021B | | | | | | | |
| Benzene | <0.00497 | 0.00298 | 0.00497 | | mg/Kg-dry | 1 | 06/08/16 01:43 PM |
| Ethylbenzene | <0.0149 | 0.00497 | 0.0149 | | mg/Kg-dry | 1 | 06/08/16 01:43 PM |
| Toluene | <0.0149 | 0.00497 | 0.0149 | | mg/Kg-dry | 1 | 06/08/16 01:43 PM |
| Xylenes, Total | <0.0149 | 0.00497 | 0.0149 | | mg/Kg-dry | 1 | 06/08/16 01:43 PM |
| Surr: Tetrachloroethene | 108 | 0 | 79-135 | | %REC | 1 | 06/08/16 01:43 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <10.7 | 5.34 | 10.7 | N | mg/Kg-dry | 1 | 06/14/16 10:34 AM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| E300 | | | | | | | |
| Chloride | 882 | 47.2 | 47.2 | | mg/Kg-dry | 10 | 06/08/16 12:45 PM |
| PERCENT MOISTURE | | | | | | | |
| D2216 | | | | | | | |
| Percent Moisture | 7.00 | 0 | 0 | | WT% | 1 | 06/09/16 08:50 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.

Date: 15-Jun-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1606029

Client Sample ID: DP4 (2-3)
Lab ID: 1606029-06
Collection Date: 06/01/16 01:30 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | <9.45 | 9.45 | 9.45 | | mg/Kg-dry | 1 | 06/09/16 10:50 AM |
| TPH-ORO >C28-C35 | <9.45 | 9.45 | 9.45 | | mg/Kg-dry | 1 | 06/09/16 10:50 AM |
| Surr: Isopropylbenzene | 53.2 | 0 | 47-142 | %REC | | 1 | 06/09/16 10:50 AM |
| Surr: Octacosane | 86.1 | 0 | 25-162 | %REC | | 1 | 06/09/16 10:50 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | | | | | | | |
| Gasoline Range Organics | <0.198 | 0.0988 | 0.198 | | mg/Kg-dry | 1 | 06/07/16 01:45 PM |
| Surr: Tetrachlorethene | 110 | 0 | 70-134 | %REC | | 1 | 06/07/16 01:45 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| SW8021B | | | | | | | |
| Benzene | <0.00484 | 0.00290 | 0.00484 | | mg/Kg-dry | 1 | 06/08/16 02:07 PM |
| Ethylbenzene | <0.0145 | 0.00484 | 0.0145 | | mg/Kg-dry | 1 | 06/08/16 02:07 PM |
| Toluene | <0.0145 | 0.00484 | 0.0145 | | mg/Kg-dry | 1 | 06/08/16 02:07 PM |
| Xylenes, Total | <0.0145 | 0.00484 | 0.0145 | | mg/Kg-dry | 1 | 06/08/16 02:07 PM |
| Surr: Tetrachloroethene | 105 | 0 | 79-135 | %REC | | 1 | 06/08/16 02:07 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <9.95 | 4.97 | 9.95 | N | mg/Kg-dry | 1 | 06/14/16 10:34 AM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| E300 | | | | | | | |
| Chloride | 192 | 47.5 | 47.5 | | mg/Kg-dry | 10 | 06/08/16 01:00 PM |
| PERCENT MOISTURE | | | | | | | |
| D2216 | | | | | | | |
| Percent Moisture | 2.30 | 0 | 0 | | WT% | 1 | 06/09/16 08:50 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
MDL: Method Detection Limit
RL: Reporting Limit
N: Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Jun-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1606029

Client Sample ID: DP3 (2-3)
Lab ID: 1606029-07
Collection Date: 06/01/16 01:45 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | <11.5 | 11.5 | 11.5 | | mg/Kg-dry | 1 | 06/09/16 10:59 AM |
| TPH-ORO >C28-C35 | <11.5 | 11.5 | 11.5 | | mg/Kg-dry | 1 | 06/09/16 10:59 AM |
| Surr: Isopropylbenzene | 40.4 | 0 | 47-142 | S | %REC | 1 | 06/09/16 10:59 AM |
| Surr: Octacosane | 87.7 | 0 | 25-162 | | %REC | 1 | 06/09/16 10:59 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.239 | 0.119 | 0.239 | | mg/Kg-dry | 1 | 06/07/16 02:09 PM |
| Surr: Tetrachlorethene | 111 | 0 | 70-134 | | %REC | 1 | 06/07/16 02:09 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| SW8021B | | | | | | | |
| Benzene | <0.00592 | 0.00355 | 0.00592 | | mg/Kg-dry | 1 | 06/08/16 02:31 PM |
| Ethylbenzene | <0.0178 | 0.00592 | 0.0178 | | mg/Kg-dry | 1 | 06/08/16 02:31 PM |
| Toluene | <0.0178 | 0.00592 | 0.0178 | | mg/Kg-dry | 1 | 06/08/16 02:31 PM |
| Xylenes, Total | <0.0178 | 0.00592 | 0.0178 | | mg/Kg-dry | 1 | 06/08/16 02:31 PM |
| Surr: Tetrachloroethene | 105 | 0 | 79-135 | | %REC | 1 | 06/08/16 02:31 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <11.8 | 5.92 | 11.8 | N | mg/Kg-dry | 1 | 06/14/16 10:34 AM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| E300 | | | | | | | |
| Chloride | 567 | 54.4 | 54.4 | | mg/Kg-dry | 10 | 06/08/16 01:15 PM |
| PERCENT MOISTURE | | | | | | | |
| D2216 | | | | | | | |
| Percent Moisture | 17.7 | 0 | 0 | | WT% | 1 | 06/09/16 08:50 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Jun-16

CLIENT: Larson & Associates **Client Sample ID:** DP2 (2-3)
Project: R360 Artesia Landfarm **Lab ID:** 1606029-08
Project No: 15-0121-01 **Collection Date:** 06/01/16 02:10 PM
Lab Order: 1606029 **Matrix:** SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | <10.9 | 10.9 | 10.9 | | mg/Kg-dry | 1 | 06/09/16 11:26 AM |
| TPH-ORO >C28-C35 | <10.9 | 10.9 | 10.9 | | mg/Kg-dry | 1 | 06/09/16 11:26 AM |
| Surr: Isopropylbenzene | 32.4 | 0 | 47-142 | S | %REC | 1 | 06/09/16 11:26 AM |
| Surr: Octacosane | 82.5 | 0 | 25-162 | | %REC | 1 | 06/09/16 11:26 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.226 | 0.113 | 0.226 | | mg/Kg-dry | 1 | 06/07/16 02:33 PM |
| Surr: Tetrachlorethene | 103 | 0 | 70-134 | | %REC | 1 | 06/07/16 02:33 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| SW8021B | | | | | | | |
| Benzene | <0.00558 | 0.00335 | 0.00558 | | mg/Kg-dry | 1 | 06/08/16 02:56 PM |
| Ethylbenzene | <0.0167 | 0.00558 | 0.0167 | | mg/Kg-dry | 1 | 06/08/16 02:56 PM |
| Toluene | <0.0167 | 0.00558 | 0.0167 | | mg/Kg-dry | 1 | 06/08/16 02:56 PM |
| Xylenes, Total | <0.0167 | 0.00558 | 0.0167 | | mg/Kg-dry | 1 | 06/08/16 02:56 PM |
| Surr: Tetrachloroethene | 103 | 0 | 79-135 | | %REC | 1 | 06/08/16 02:56 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <11.0 | 5.52 | 11.0 | N | mg/Kg-dry | 1 | 06/14/16 10:34 AM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| E300 | | | | | | | |
| Chloride | 328 | 54.5 | 54.5 | | mg/Kg-dry | 10 | 06/08/16 01:30 PM |
| PERCENT MOISTURE | | | | | | | |
| D2216 | | | | | | | |
| Percent Moisture | 14.0 | 0 | 0 | | WT% | 1 | 06/09/16 08:50 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.

Date: 15-Jun-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1606029

Client Sample ID: DP1 (2-3)
Lab ID: 1606029-09
Collection Date: 06/01/16 02:30 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | <10.6 | 10.6 | 10.6 | | mg/Kg-dry | 1 | 06/09/16 11:35 AM |
| TPH-ORO >C28-C35 | <10.6 | 10.6 | 10.6 | | mg/Kg-dry | 1 | 06/09/16 11:35 AM |
| Surr: Isopropylbenzene | 54.1 | 0 | 47-142 | %REC | | 1 | 06/09/16 11:35 AM |
| Surr: Octacosane | 84.9 | 0 | 25-162 | %REC | | 1 | 06/09/16 11:35 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.204 | 0.102 | 0.204 | | mg/Kg-dry | 1 | 06/07/16 02:57 PM |
| Surr: Tetrachlorethene | 107 | 0 | 70-134 | %REC | | 1 | 06/07/16 02:57 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| SW8021B | | | | | | | |
| Benzene | <0.00536 | 0.00322 | 0.00536 | | mg/Kg-dry | 1 | 06/08/16 03:20 PM |
| Ethylbenzene | <0.0161 | 0.00536 | 0.0161 | | mg/Kg-dry | 1 | 06/08/16 03:20 PM |
| Toluene | <0.0161 | 0.00536 | 0.0161 | | mg/Kg-dry | 1 | 06/08/16 03:20 PM |
| Xylenes, Total | <0.0161 | 0.00536 | 0.0161 | | mg/Kg-dry | 1 | 06/08/16 03:20 PM |
| Surr: Tetrachloroethene | 102 | 0 | 79-135 | %REC | | 1 | 06/08/16 03:20 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <10.5 | 5.24 | 10.5 | N | mg/Kg-dry | 1 | 06/14/16 10:34 AM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| E300 | | | | | | | |
| Chloride | 98.2 | 51.0 | 51.0 | | mg/Kg-dry | 10 | 06/08/16 01:45 PM |
| PERCENT MOISTURE | | | | | | | |
| D2216 | | | | | | | |
| Percent Moisture | 7.07 | 0 | 0 | | WT% | 1 | 06/09/16 08:50 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Jun-16

CLIENT: Larson & Associates
Work Order: 1606029
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_160609A

The QC data in batch 75506 applies to the following samples: 1606029-01A, 1606029-02A, 1606029-03A, 1606029-04A, 1606029-05A, 1606029-06A, 1606029-07A, 1606029-08A, 1606029-09A

| Sample ID | LCS-75506 | Batch ID: | 75506 | TestNo: | M8015D | | Units: | mg/Kg | | | |
|------------------------|---|-----------|--------------|----------------|----------------------|------|------------|-----------|-------|----------|------|
| SampType: | LCS | Run ID: | GC15_160609A | Analysis Date: | 6/9/2016 9:56:59 AM | | Prep Date: | 6/8/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 91.4 | 10.0 | 125.0 | 0 | 73.1 | 50 | 114 | | | |
| Surr: Isopropylbenzene | | 6.31 | | 7.500 | | 84.2 | 47 | 142 | | | |
| Surr: Octacosane | | 6.81 | | 7.500 | | 90.8 | 25 | 162 | | | |
| Sample ID | LCS1-75506 | Batch ID: | 75506 | TestNo: | M8015D | | Units: | mg/Kg | | | |
| SampType: | LCS | Run ID: | GC15_160609A | Analysis Date: | 6/9/2016 10:05:58 AM | | Prep Date: | 6/8/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 79.1 | 10.0 | 125.0 | 0 | 63.3 | 50 | 114 | | | |
| Surr: Isopropylbenzene | | 5.58 | | 7.500 | | 74.4 | 47 | 142 | | | |
| Surr: Octacosane | | 5.71 | | 7.500 | | 76.1 | 25 | 162 | | | |
| Sample ID | MB-75506 | Batch ID: | 75506 | TestNo: | M8015D | | Units: | mg/Kg | | | |
| SampType: | MBLK <th>Run ID:</th> <td>GC15_160609A</td> <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">6/9/2016 10:32:55 AM</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td data-cs="2" data-kind="parent">6/8/2016</td> <td data-kind="ghost"></td> | Run ID: | GC15_160609A | Analysis Date: | 6/9/2016 10:32:55 AM | | Prep Date: | 6/8/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | <10.0 | 10.0 | | | | | | | | |
| TPH-ORO >C28-C35 | | <10.0 | 10.0 | | | | | | | | |
| Surr: Isopropylbenzene | | 6.14 | | 7.500 | | 81.9 | 47 | 142 | | | |
| Surr: Octacosane | | 6.39 | | 7.500 | | 85.2 | 25 | 162 | | | |
| Sample ID | 1606029-07AMS | Batch ID: | 75506 | TestNo: | M8015D | | Units: | mg/Kg-dry | | | |
| SampType: | MS | Run ID: | GC15_160609A | Analysis Date: | 6/9/2016 11:08:48 AM | | Prep Date: | 6/8/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 105 | 11.9 | 148.8 | 0 | 70.8 | 50 | 114 | | | |
| Surr: Isopropylbenzene | | 6.82 | | 8.930 | | 76.3 | 47 | 142 | | | |
| Surr: Octacosane | | 7.69 | | 8.930 | | 86.1 | 25 | 162 | | | |
| Sample ID | 1606029-07AMSD | Batch ID: | 75506 | TestNo: | M8015D | | Units: | mg/Kg-dry | | | |
| SampType: | MSD | Run ID: | GC15_160609A | Analysis Date: | 6/9/2016 11:17:46 AM | | Prep Date: | 6/8/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 106 | 12.0 | 150.6 | 0 | 70.3 | 50 | 114 | 0.397 | 30 | |
| Surr: Isopropylbenzene | | 7.64 | | 9.036 | | 84.5 | 47 | 142 | 0 | 0 | |
| Surr: Octacosane | | 7.74 | | 9.036 | | 85.7 | 25 | 162 | 0 | 0 | |

Qualifiers: B Analytic detected in the associated Method Blank
J Analytic detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
Surr: Analytic detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1606029
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_160609A

| Sample ID | ICV-160609 | Batch ID: | R86222 | TestNo: | M8015D | | Units: | mg/Kg | | | |
|------------------------|-------------|-----------|--------------|-------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GC15_160609A | Analysis Date: 6/9/2016 9:40:07 AM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 529 | 10.0 | 500.0 | 0 | 106 | 80 | 120 | | | |
| Surr: Isopropylbenzene | | 26.1 | | 25.00 | | 104 | 80 | 120 | | | |
| Surr: Octacosane | | 27.9 | | 25.00 | | 112 | 80 | 120 | | | |
| Sample ID | CCV1-160609 | Batch ID: | R86222 | TestNo: | M8015D | | Units: | mg/Kg | | | |
| SampType: | CCV | Run ID: | GC15_160609A | Analysis Date: 6/9/2016 12:42:10 PM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 218 | 10.0 | 250.0 | 0 | 87.0 | 80 | 120 | | | |
| Surr: Isopropylbenzene | | 12.7 | | 12.50 | | 101 | 80 | 120 | | | |
| Surr: Octacosane | | 11.3 | | 12.50 | | 90.3 | 80 | 120 | | | |
| Sample ID | CCV2-160609 | Batch ID: | R86222 | TestNo: | M8015D | | Units: | mg/Kg | | | |
| SampType: | CCV | Run ID: | GC15_160609A | Analysis Date: 6/9/2016 2:42:55 PM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 206 | 10.0 | 250.0 | 0 | 82.6 | 80 | 120 | | | |
| Surr: Isopropylbenzene | | 12.7 | | 12.50 | | 102 | 80 | 120 | | | |
| Surr: Octacosane | | 11.2 | | 12.50 | | 89.7 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL.

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1606029
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_160607A

The QC data in batch 75489 applies to the following samples: 1606029-01A, 1606029-02A, 1606029-03A, 1606029-04A, 1606029-05A, 1606029-06A, 1606029-07A, 1606029-08A, 1606029-09A

| Sample ID | LCS-75489 | Batch ID: | 75489 | TestNo: | M8015V | | Units: | mg/Kg | | | |
|-------------------------|--|-----------|-------------|----------------|----------------------|------|------------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | GC4_160607A | Analysis Date: | 6/7/2016 10:16:18 AM | | Prep Date: | 6/7/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 4.70 | 0.200 | 5.000 | 0 | 94.1 | 68 | 126 | | | |
| Surr: Tetrachlorethene | | 0.372 | | 0.4000 | | 93.1 | 70 | 134 | | | |
| Sample ID | MB-75489 | Batch ID: | 75489 | TestNo: | M8015V | | Units: | mg/Kg | | | |
| SampType: | MBLK <th>Run ID:</th> <td>GC4_160607A</td> <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">6/7/2016 11:04:31 AM</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td data-cs="2" data-kind="parent">6/7/2016</td> <td data-kind="ghost"></td> | Run ID: | GC4_160607A | Analysis Date: | 6/7/2016 11:04:31 AM | | Prep Date: | 6/7/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | <0.200 | 0.200 | | | | | | | | |
| Surr: Tetrachlorethene | | 0.436 | | 0.4000 | | 109 | 70 | 134 | | | |
| Sample ID | 1606029-09AMS | Batch ID: | 75489 | TestNo: | M8015V | | Units: | mg/Kg-dry | | | |
| SampType: | MS | Run ID: | GC4_160607A | Analysis Date: | 6/7/2016 3:21:20 PM | | Prep Date: | 6/7/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 5.09 | 0.210 | 5.254 | 0 | 96.8 | 68 | 126 | | | |
| Surr: Tetrachlorethene | | 0.427 | | 0.4204 | | 102 | 70 | 134 | | | |
| Sample ID | 1606029-09AMSD | Batch ID: | 75489 | TestNo: | M8015V | | Units: | mg/Kg-dry | | | |
| SampType: | MSD | Run ID: | GC4_160607A | Analysis Date: | 6/7/2016 3:45:24 PM | | Prep Date: | 6/7/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 4.83 | 0.200 | 5.000 | 0 | 96.5 | 68 | 126 | 5.24 | 30 | |
| Surr: Tetrachlorethene | | 0.379 | | 0.4000 | | 94.9 | 70 | 134 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 S Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1606029
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_160607A

| Sample ID | ICV-160607 | Batch ID: | R86209 | TestNo: | M8015V | | Units: | mg/Kg | | | |
|-------------------------|-------------|-----------|-------------|----------------|---------------------|------|------------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GC4_160607A | Analysis Date: | 6/7/2016 9:39:03 AM | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 9.78 | 0.200 | 10.00 | 0 | 97.8 | 80 | 120 | | | |
| Surr: Tetrachlorethene | | 0.307 | | 0.4000 | | 76.9 | 70 | 134 | | | |
| Sample ID | CCV1-160607 | Batch ID: | R86209 | TestNo: | M8015V | | Units: | mg/Kg | | | |
| SampType: | CCV | Run ID: | GC4_160607A | Analysis Date: | 6/7/2016 4:12:41 PM | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 4.78 | 0.200 | 5.000 | 0 | 95.5 | 80 | 120 | | | |
| Surr: Tetrachlorethene | | 0.329 | | 0.4000 | | 82.2 | 70 | 134 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1606029
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_160608A

The QC data in batch 75517 applies to the following samples: 1606029-01A, 1606029-02A, 1606029-03A, 1606029-04A, 1606029-05A, 1606029-06A, 1606029-07A, 1606029-08A, 1606029-09A

| Sample ID | LCS-75517 | Batch ID: | 75517 | TestNo: | SW8021B | | Units: | mg/Kg | | | |
|-------------------------|--|-----------|--|----------------|----------------------|------|------------|-----------|-------|----------|------|
| SampType: | LCS <th>Run ID:</th> <td>GC4_160608A<th>Analysis Date:</th><td data-cs="2" data-kind="parent">6/8/2016 10:41:08 AM</td><td data-kind="ghost"></td><th>Prep Date:</th><td>6/8/2016</td></td> | Run ID: | GC4_160608A <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">6/8/2016 10:41:08 AM</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td>6/8/2016</td> | Analysis Date: | 6/8/2016 10:41:08 AM | | Prep Date: | 6/8/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.0836 | 0.00500 | 0.1000 | 0 | 83.6 | 65 | 113 | | | |
| Toluene | | 0.0862 | 0.0150 | 0.1000 | 0 | 86.2 | 73 | 115 | | | |
| Ethylbenzene | | 0.0850 | 0.0150 | 0.1000 | 0 | 85.0 | 74 | 118 | | | |
| Xylenes, Total | | 0.261 | 0.0150 | 0.3000 | 0 | 87.0 | 73 | 119 | | | |
| Surr: Tetrachloroethene | | 0.160 | | 0.2000 | | 80.0 | 79 | 135 | | | |
| Sample ID | MB-75517 | Batch ID: | 75517 | TestNo: | SW8021B | | Units: | mg/Kg | | | |
| SampType: | MBLK <th>Run ID:</th> <td>GC4_160608A<th>Analysis Date:</th><td data-cs="2" data-kind="parent">6/8/2016 11:29:16 AM</td><td data-kind="ghost"></td><th>Prep Date:</th><td>6/8/2016</td></td> | Run ID: | GC4_160608A <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">6/8/2016 11:29:16 AM</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td>6/8/2016</td> | Analysis Date: | 6/8/2016 11:29:16 AM | | Prep Date: | 6/8/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | <0.00500 | 0.00500 | | | | | | | | |
| Toluene | | <0.0150 | 0.0150 | | | | | | | | |
| Ethylbenzene | | <0.0150 | 0.0150 | | | | | | | | |
| Xylenes, Total | | <0.0150 | 0.0150 | | | | | | | | |
| Surr: Tetrachloroethene | | 0.204 | | 0.2000 | | | 102 | 79 | 135 | | |
| Sample ID | 1606029-09AMS | Batch ID: | 75517 | TestNo: | SW8021B | | Units: | mg/Kg-dry | | | |
| SampType: | MS | Run ID: | GC4_160608A <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">6/8/2016 3:45:05 PM</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td>6/8/2016</td> | Analysis Date: | 6/8/2016 3:45:05 PM | | Prep Date: | 6/8/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.0922 | 0.00526 | 0.1053 | 0 | 87.6 | 65 | 113 | | | |
| Toluene | | 0.0952 | 0.0158 | 0.1053 | 0 | 90.4 | 73 | 115 | | | |
| Ethylbenzene | | 0.0962 | 0.0158 | 0.1053 | 0 | 91.3 | 74 | 118 | | | |
| Xylenes, Total | | 0.287 | 0.0158 | 0.3159 | 0 | 90.8 | 73 | 119 | | | |
| Surr: Tetrachloroethene | | 0.200 | | 0.2106 | | 94.8 | 79 | 135 | | | |
| Sample ID | 1606029-09AMSD | Batch ID: | 75517 | TestNo: | SW8021B | | Units: | mg/Kg-dry | | | |
| SampType: | MSD | Run ID: | GC4_160608A <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">6/8/2016 4:09:25 PM</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td>6/8/2016</td> | Analysis Date: | 6/8/2016 4:09:25 PM | | Prep Date: | 6/8/2016 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.0919 | 0.00521 | 0.1043 | 0 | 88.2 | 65 | 113 | 0.302 | 30 | |
| Toluene | | 0.0944 | 0.0156 | 0.1043 | 0 | 90.5 | 73 | 115 | 0.869 | 30 | |
| Ethylbenzene | | 0.0956 | 0.0156 | 0.1043 | 0 | 91.6 | 74 | 118 | 0.638 | 30 | |
| Xylenes, Total | | 0.287 | 0.0156 | 0.3128 | 0 | 91.8 | 73 | 119 | 0.095 | 30 | |
| Surr: Tetrachloroethene | | 0.200 | | 0.2085 | | 95.9 | 79 | 135 | 0 | | |

Qualifiers: B Analytic detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1606029
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_160608A

| Sample ID | ICV-160608 | Batch ID: | R86207 | TestNo: | SW8021B | | Units: | mg/Kg | | | |
|-------------------------|------------|-----------|-------------|-------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GC4_160608A | Analysis Date: 6/8/2016 10:08:54 AM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.187 | 0.00500 | 0.2000 | 0 | 93.3 | 80 | 120 | | | |
| Toluene | | 0.189 | 0.0150 | 0.2000 | 0 | 94.4 | 80 | 120 | | | |
| Ethylbenzene | | 0.195 | 0.0150 | 0.2000 | 0 | 97.6 | 80 | 120 | | | |
| Xylenes, Total | | 0.629 | 0.0150 | 0.6000 | 0 | 105 | 80 | 120 | | | |
| Surr: Tetrachloroethene | | 0.171 | | 0.2000 | | 85.4 | 79 | 135 | | | |

| Sample ID | CCV1-160608 | Batch ID: | R86207 | TestNo: | SW8021B | | Units: | mg/Kg | | | |
|-------------------------|-------------|-----------|-------------|------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | GC4_160608A | Analysis Date: 6/8/2016 4:45:06 PM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.0847 | 0.00500 | 0.1000 | 0 | 84.7 | 80 | 120 | | | |
| Toluene | | 0.0876 | 0.0150 | 0.1000 | 0 | 87.6 | 80 | 120 | | | |
| Ethylbenzene | | 0.0867 | 0.0150 | 0.1000 | 0 | 86.7 | 80 | 120 | | | |
| Xylenes, Total | | 0.262 | 0.0150 | 0.3000 | 0 | 87.3 | 80 | 120 | | | |
| Surr: Tetrachloroethene | | 0.197 | | 0.2000 | | 98.6 | 79 | 135 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1606029
Project: R360 Arctcia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_160608A

The QC data in batch 75507 applies to the following samples: 1606029-01A, 1606029-02A, 1606029-03A, 1606029-04A, 1606029-05A, 1606029-06A, 1606029-07A, 1606029-08A, 1606029-09A

| Sample ID | MB-75507 | Batch ID: | 75507 | TestNo: | E300 | Units: | mg/Kg | | | | |
|-----------|----------------|-----------|-------------|-------------------------------------|---------|------------|-----------|-----------|-------|----------|------|
| SampType: | MBLK | Run ID: | IC4_160608A | Analysis Date: 6/8/2016 10:51:45 AM | | Prep Date: | 6/8/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | <5.00 | 5.00 | | | | | | | | |
| Sample ID | LCS-75507 | Batch ID: | 75507 | TestNo: | E300 | Units: | mg/Kg | | | | |
| SampType: | LCS | Run ID: | IC4_160608A | Analysis Date: 6/8/2016 11:06:45 AM | | Prep Date: | 6/8/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 48.4 | 5.00 | 50.00 | 0 | 96.9 | 80 | 120 | | | |
| Sample ID | LCSD-75507 | Batch ID: | 75507 | TestNo: | E300 | Units: | mg/Kg | | | | |
| SampType: | LCSD | Run ID: | IC4_160608A | Analysis Date: 6/8/2016 11:21:45 AM | | Prep Date: | 6/8/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 48.3 | 5.00 | 50.00 | 0 | 96.6 | 80 | 120 | 0.265 | 20 | |
| Sample ID | 1606029-09AMS | Batch ID: | 75507 | TestNo: | E300 | Units: | mg/Kg-dry | | | | |
| SampType: | MS | Run ID: | IC4_160608A | Analysis Date: 6/8/2016 2:10:57 PM | | Prep Date: | 6/8/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 195 | 48.7 | 97.47 | 98.15 | 98.9 | 80 | 120 | | | |
| Sample ID | 1606029-09AMSD | Batch ID: | 75507 | TestNo: | E300 | Units: | mg/Kg-dry | | | | |
| SampType: | MSD | Run ID: | IC4_160608A | Analysis Date: 6/8/2016 2:25:57 PM | | Prep Date: | 6/8/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 201 | 51.3 | 102.7 | 98.15 | 100 | 80 | 120 | 3.22 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 7 of 10

CLIENT: Larson & Associates
Work Order: 1606029
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_160608A

| Sample ID | ICV-160608 | Batch ID: | R86203 | TestNo: | E300 | Units: | mg/Kg | | | |
|-----------|-------------|-----------|-------------|------------------------------------|------|------------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | IC4_160608A | Analysis Date: 6/8/2016 9:56:20 AM | | Prep Date: | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 25.0 | 5.00 | 25.00 | 0 | 100 | 90 | 110 | | | |
| Sample ID | CCV1-160608 | Batch ID: | R86203 | TestNo: | E300 | Units: | mg/Kg | | | |
| SampType: | CCV | Run ID: | IC4_160608A | Analysis Date: 6/8/2016 3:03:24 PM | | Prep Date: | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 10.0 | 5.00 | 10.00 | 0 | 100 | 90 | 110 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1606029
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_160614A

The QC data in batch 75629 applies to the following samples: 1606029-01A, 1606029-02A, 1606029-03A, 1606029-04A, 1606029-05A, 1606029-06A, 1606029-07A, 1606029-08A, 1606029-09A

| Sample ID | ICV-160614 | Batch ID: | 75629 | TestNo: | E418.1 | | Units: | mg/Kg | | |
|----------------------------|----------------|-----------|--|----------------|-----------------------|----------|------------|-----------|----------|------|
| SampType: | ICV | Run ID: | IR207_160614A <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">6/14/2016 10:34:00 AM</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td></td> | Analysis Date: | 6/14/2016 10:34:00 AM | | Prep Date: | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 252 | 10.0 | 250.0 | 0 | 101 | 90 | 110 | | | N |
| Sample ID | MB-75629 | Batch ID: | 75629 | TestNo: | E418.1 | | Units: | mg/Kg | | |
| SampType: | MLK | Run ID: | IR207_160614A <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">6/14/2016 10:34:00 AM</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td>6/14/2016</td> | Analysis Date: | 6/14/2016 10:34:00 AM | | Prep Date: | 6/14/2016 | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | <10.0 | 10.0 | | | | | | | | N |
| Sample ID | LCS-75629 | Batch ID: | 75629 | TestNo: | E418.1 | | Units: | mg/Kg | | |
| SampType: | LCS | Run ID: | IR207_160614A <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">6/14/2016 10:34:00 AM</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td>6/14/2016</td> | Analysis Date: | 6/14/2016 10:34:00 AM | | Prep Date: | 6/14/2016 | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 101 | 10.0 | 100.0 | 0 | 101 | 80 | 120 | | | N |
| Sample ID | 1606029-09AMS | Batch ID: | 75629 | TestNo: | E418.1 | | Units: | mg/Kg-dry | | |
| SampType: | MS | Run ID: | IR207_160614A <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">6/14/2016 10:34:00 AM</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td>6/14/2016</td> | Analysis Date: | 6/14/2016 10:34:00 AM | | Prep Date: | 6/14/2016 | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 115 | 10.1 | 101.2 | 0 | 114 | 80 | 120 | | | N |
| Sample ID | 1606029-09AMSD | Batch ID: | 75629 | TestNo: | E418.1 | | Units: | mg/Kg-dry | | |
| SampType: | MSD | Run ID: | IR207_160614A <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">6/14/2016 10:34:00 AM</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td>6/14/2016</td> | Analysis Date: | 6/14/2016 10:34:00 AM | | Prep Date: | 6/14/2016 | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 113 | 10.4 | 103.7 | 0 | 109 | 80 | 120 | 1.51 | 20 | N |
| Sample ID | CCV1-160614 | Batch ID: | 75629 | TestNo: | E418.1 | | Units: | mg/Kg | | |
| SampType: | CCV | Run ID: | IR207_160614A <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">6/14/2016 10:34:00 AM</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td></td> | Analysis Date: | 6/14/2016 10:34:00 AM | | Prep Date: | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 251 | 10.0 | 250.0 | 0 | 101 | 85 | 115 | | | N |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL.
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1606029
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_160608A

The QC data in batch 75520 applies to the following samples: 1606029-01A, 1606029-02A, 1606029-03A, 1606029-04A, 1606029-05A, 1606029-06A, 1606029-07A, 1606029-08A, 1606029-09A

| Sample ID | 1606029-06A DUP | Batch ID: | 75520 | TestNo: | D2216 | Units: | WT% | | | |
|------------------|-----------------|-----------|----------------|----------------|---------------------|------------|-----------|------|----------|------|
| SampType: | DUP | Run ID: | PMOIST_160608A | Analysis Date: | 6/9/2016 8:50:00 AM | Prep Date: | 6/8/2016 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Percent Moisture | 2.41 | 0 | 0 | 2.301 | | | | 4.78 | 30 | |

Qualifiers:

- B Analytic detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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June 9, 2016

Mr. Brad Jones
Oil Conservation Division
New Mexico Energy, Minerals and
Natural Resources Department
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: 2016 Analytical Results, R360 Artesia, LLC Landfarm (NM1-30-0), Unit B (NW/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico

Mr. Jones:

The enclosed data tables present laboratory results of treatment and vadose soil samples collected at the R360 Artesia, LLC (formerly Artesia Aeration) Landfarm during the first quarter of 2016. You may contact me at (956) 458-0515 or by email at StephanieG@r360es.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie Garza".

Stephanie Garza
R360 Environmental Solutions, LLC

Attachments

1st Quarter 2016
SURFACE WASTE MANAGEMENT
SUMMARY REPORT
R360 Artesia, LLC Landfarm
(NM-01-030)

Lea County, New Mexico

Project No. 15-0121-01

June 7, 2016

Prepared for:

**R360 Permian Basin, LLC
507 N. Marienfeld, Suite 200
Midland, Texas 79701**

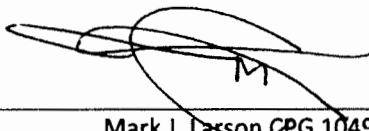
Prepared by:

**Larson & Associates, Inc.
507 North Marienfeld, Suite 205
Midland, Texas 79701**

Carson Hughes

Carson Hughes

Chemist/Engineering Professional



Mark J. Larson CPG 10490

President/Geologist

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1.0 INTRODUCTION

This report has been prepared by Larson & Associates, Inc. (LAI) to present vadose and treatment zone monitoring results for the first quarter of 2016 at the R360 Artesia Aeration, LLC (R360) Landfarm (Facility) located in Lea County, New Mexico. The Facility is permitted by the New Mexico Oil Conservation Division (OCD) as a commercial surface waste management facility (NM-1-0030) for treating exempt oil field waste (i.e., soil and drill cuttings) contaminated predominately by petroleum hydrocarbons. The Facility occupies approximately 48.4 acres in Unit A (NE/4, NE/4), Section 7, Township 17 South and Range 32 East in Lea County, New Mexico. The geodetic position is north 32° 51' 4.93" and west 103° 48' 15.45". The Facility is divided into 6 cells (Cell 1 through Cell 6) ranging in size from about 2.74 acres (Cell 1) to 13.28 acres (Cell 6). Figure 1 presents a detailed topographic map. Figure 2 presents an aerial map. Figure 3 presents a Facility drawing with locations of the first quarter samples.

The Facility was permitted Artesia Aeration Landfarm on November 29, 1999. R360 acquired the Facility in April 2011. R360 has accepted no new material.

2.0 LANDFARM MONITORING

2.1 Treatment (Tilled) Zone Soil Samples

Per OCD permit requirements, 4-part composite soil samples were collected from cells 1, 3, 4, and 5 treatment (tilled) zones on March 16, 2016. No treatment zone samples were collect from cell 2 since no soil was added to the cell since approval was granted by OCD to add an additional lift. Samples were retrieved from 0-1 foot depth in the tilled zone using a stainless steel trowel. Sample aliquots were immediately placed in pre-cleaned 4-ounce jars, properly labeled, and iced upon collection. The samples were shipped via LoneStar Overnight, under custody seals and chain of custody to DHL. The samples were analyzed for BTEX, TPH, and chloride by EPA SW-846 methods 8021B, 8015 and 300, respectively.

Table 1 presents a summary of the treatment zone BTEX, TPH, and chloride analysis. The discrete sample locations were recorded with a Trimble® hand held GPS receiver. Figure 3 presents the treatment zone sample locations. The laboratory report is included in Appendix A.

2.1.1 Organic Sample Results

BTEX constituents were below the method reporting limits, equivalent to the practical quantitation limit (PQL) and closure performance standards for treatment zone samples collected from cells 1, 3, 4, and 5.

TPH was reported at 629, 508, 527 and 1,406 milligrams per kilogram (mg/Kg) in treatment zone samples from cells 1, 3, 4 and 5, respectively. The TPH concentrations exceed the permit threshold of 500 mg/Kg.

2.1.2 Chloride Sample Results

Chloride was detected above the permit threshold limit of 1,000 ppm in cell 5 (2,100 mg/kg) during the first quarterly event the chloride results for the remaining cells were below the 1,000 ppm permit threshold.

2.2 Vadose Zone Samples

Vadose zone samples were collected on March 16, 2016 (1st Quarter) from native soil approximately 2 to 3 feet below cells 1 through 5. The samples were collected using a Terraprobe® direct push rig after treatment zone soil was removed from the sample location. The Terraprobe® pushes or percussion hammers a 4-foot long stainless steel core barrel into the subsurface and collects a 4-foot long soil core. The core barrel is equipped with polyethene liners to minimize cross contamination between samples.

The samples were collected in 4-ounce glass containers that were labeled, chilled in an ice chest and delivered to DHL. The laboratory analyzed the samples for BTEX by EPA SW-846 method 8021B, total residual petroleum hydrocarbon (TRPH) by EPA method 418.1, TPH, including diesel (DRO) and gasoline (GRO) range organics, by EPA SW-846 method 8015, metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver), cations (calcium, magnesium, sodium and potassium) and anions (alkalinity, sulfate and chloride). The boreholes were filled with bentonite and the locations recorded with the Trimble® GPS receiver. Table 2 presents the BTEX and TPH analytical data summary. Table 3 presents the metals analytical data summary. Table 4 presents the cation and anion analytical data summary. Appendix A presents the laboratory reports.

2.2.1 Organic Sample Results

Sample results from cells 1, 2, 3, 4, and 5 were below reporting limits for the BTEX constituents.

Sample results from cells 1, 2, 3, 4 and 5 reported, TPH above the reporting limit and ranged from 4.49 mg/Kg (cell 2) to 310 mg/Kg (cell 5). TRPH was above the mean background concentration (<4.90 mg/Kg) in samples from cells 1 through 5 and ranged from less than the reporting limit (<12.2 mg/Kg) in cell 2 to 287 mg/Kg (cell 5). The TPH and TRPH is believe to be the result of loose material that was incorporated into the sample during collection.

2.2.2 Metals Sample Results

Arsenic exceeded the mean background concentration (1.63 mg/Kg) in vadose zone samples for cells 1 (3.15 mg/Kg), 4 (4.04 mg/kg), and 5 (2.26 mg/kg).

Barium was detected above background mean concentration (21.0 mg/Kg) for cells 1 (63.2 mg/Kg), 2 (70.5 mg/Kg), 4 (149 mg/Kg), and 5 (158 mg/Kg).

Cadmium was reported above background mean concentration (<0.117 mg/Kg) in cell 4 (0.264 mg/Kg).

Chromium was detected above background mean concentration (4.81 mg/Kg) for cells 1 (12.1 mg/Kg), 4 (16.3 mg/Kg) and 5 (8.92 mg/Kg).

Lead was above background mean concentration (2.87 mg/Kg) for cells 1 (4.71 mg/Kg), 4 (48.5 mg/Kg), and 5 (5.75 mg/Kg).

Mercury was detected below the reporting limit but above the mean background concentration (<0.016 mg/Kg) in cell 4 (0.0688 mg/Kg) 5 (0.0173 mg/Kg), and above the reporting limit and mean background concentration in cell 4 (0.0688 mg/kg).

Selenium was detected above the mean background concentration (0.597 mg/Kg) in cell 4 (0.966 mg/Kg).

Silver was below the detection limit in all cells.

2.2.3 Anion Sample Results

Chloride in the vadose zone sample for cells 1, 2, 3, 4, and 5 ranged from 14.4 mg/Kg (cell 2) to 3,120 mg/Kg (cell 5) and exceeded the mean background concentration (5.04 ppm).

3.0 SUMMARY

- BTEX was below the analytical method reporting limits and closure standards in treatment zone samples from cells 1, 3, 4 and 5 during the first quarter of 2016;
- TPH was above the closure standard (500 ppm) in the treatment zone for cells 1, 3, 4, and 5 in the first quarter of 2016;
- TPH, metals, and chlorides were reported above mean background in vadose zone samples during the first quarter 2016;
- R360 will continue monthly tilling of cell 1, 2, 3, 4, and 5 to promote volatilization and microbial degradation;
- The next quarter sampling event was performed on June 1, 2016 with laboratory results pending.

Tables

Table 1
Treatment Zone Soil Analytical Data Summary
R360 Artesia LLC Landfarm (NM-1-030)
Lea County, New Mexico

| Cell | Date | Depth (feet) | Benzene (mg/Kg) | BTEX (mg/Kg) | GRO (mg/Kg) | DRO (mg/Kg) | ORO (mg/Kg) | TPH (mg/Kg) | TRPH (mg/Kg) | Chloride (mg/Kg) |
|-------------------------|------------|-----------------|--------------------|-----------------|----------------|----------------|----------------|----------------|-----------------|---------------------|
| Permitted Level: | | | 0.2 | 50 | | | | 500 | 2,500 | 1,000 |
| 1 | 03/16/2016 | 0 - 1 | <0.00472 | <0.0472 | <0.190 | 366 | 263 | 629 | 836 | 356 |
| 2 | 03/16/2016 | 0 - 1 | -- | -- | -- | -- | -- | -- | -- | -- |
| 3 | 03/16/2016 | 0 - 1 | <0.00454 | <0.0454 | <0.192 | 273 | 235 | 508 | 644 | 177 |
| 4 | 03/16/2016 | 0 - 1 | <0.00451 | <0.0451 | <0.200 | 299 | 228 | 527 | 704 | 467 |
| 5 | 03/16/2016 | 0 - 1 | <0.00493 | <0.0493 | <0.186 | 737 | 669 | 1,406 | 2,080 | 2,100 |
| 6 | 03/16/2016 | 0 - 1 | -- | -- | -- | -- | -- | -- | -- | -- |

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX and Permian Basin Environmental Lab, Midland, Texas by EPA SW-846 methods 8021B (BTEX), 8015M (GRO and DRO), 418.1 (TRPH) and 300.0 (chloride)

Results are reported in milligram per Kilograms (mg/Kg) equivalent to parts per million (ppm)

Background analysis was performed by SW846 method 8260B

RL: Reporting limit (equivalent to practical quantification limit (PQL))

*Cell approved for additional lift but no soil added to cell at the time of sample collection

**Soil removed from cell and placed as additiona layer on Cells 1, 3 and 4

1. <: Less than method detection limit

2. Depth in feet below treated soil layer

Table 2
Vadose Zone Soil BTEX and TPH Analytical Data Summary
R360 Artesia LLC Landfarm (NM-1-030)
Lea County, New Mexico

| Cell | Date | Depth (feet) | RL (mg/Kg) | Benzene (mg/Kg) | RL (mg/Kg) | Ethylbenzene (mg/Kg) | RL (mg/Kg) | Toluene (mg/Kg) | RL (mg/Kg) | Xylenes (mg/Kg) | RL (mg/Kg) | GRO (mg/Kg) | RL (mg/Kg) | DRO (mg/Kg) | RL (mg/Kg) | ORO (mg/Kg) | RL (mg/Kg) | TPH (mg/Kg) | RL (mg/Kg) | TRPH (mg/Kg) | RL (mg/Kg) | Chloride (mg/Kg) | | |
|---------------------------------|------------|-----------------|---------------|--------------------|---------------|-------------------------|---------------|--------------------|---------------|--------------------|---------------|----------------|---------------|----------------|---------------|-------------------|---------------|-------------------|---------------|--------------------|---------------|---------------------|---|--|
| Background: Mean Concentration: | | | <0.00095 | <0.00095 | | | <0.00095 | | | <0.00095 | | | -- | | | | | | | | | | | |
| Background PQI or RL: | | | 0.005 | 0.005 | | | 0.005 | | | 0.005 | | | -- | | | | | | | | | | | |
| 1 | 03/16/2016 | 2 - 3 | 0.00483 | <0.00483 | 0.0145 | <0.0145 | 0.0145 | <0.0145 | 0.0145 | <0.0145 | 0.213 | <0.213 | 11.0 | 77.4 | 11.0 | 48.8 | 11.0 | 126.2 | 10.9 | 175 | 5.55 | 133 | | |
| 2 | 03/16/2016 | 2 - 3 | 0.00551 | <0.00551 | 0.0165 | <0.0165 | 0.0165 | <0.0165 | 0.0165 | <0.0165 | 0.237 | <0.237 | 11.8 | <11.8 | 11.8 | 4.49 ^j | 11.8 | 4.49 ^j | 12.2 | <12.2 | 5.74 | 14.4 | | |
| 3 | 03/16/2016 | 2 - 3 | 0.00479 | <0.00479 | 0.0144 | <0.0144 | 0.0144 | <0.0144 | 0.0144 | <0.0144 | 0.189 | <0.189 | 10.2 | 15.1 | 10.2 | 11.4 | 10.2 | 26.5 | 9.85 | 9.52 ⁱⁱ | 5.01 | 21.4 | | |
| 4 | 03/16/2016 | 2 - 3 | 0.00540 | <0.00540 | 0.0162 | <0.0162 | 0.0162 | <0.0162 | 0.0162 | <0.0162 | 0.205 | <0.205 | 10.5 | 98.7 | 10.5 | 82.3 | 10.5 | 181 | 10.7 | 228 | 5.31 | 255 | | |
| 5 | 03/16/2016 | 2 - 3 | 0.00519 | <0.00519 | 0.0156 | <0.0156 | 0.0156 | <0.0156 | 0.0156 | <0.0156 | 0.223 | <0.223 | 11.0 | 203 | 11.0 | 107 | 11.0 | 310 | 10.9 | 287 | 5.29 | 8,120 | | |
| 6 | 03/16/2016 | 2 - 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX, Permian Bain Environmental Lab, Midland, TX and Trace Analysis, Inc., Lubbock, TX

BTEX by EPA SW-846 method 8021B (BTEX)

TPH by EPA SW 846 method 8015M (GRO and DRO)

Table 2
Vadose Zone Soil BTEX and TPH Analytical Data Summary
R360 Artesia LLC Landfarm (NM-1-030)
Lea County, New Mexico

TRPH by EPA SW-846 method 418.1

Results are reported in milligram per Kilograms (mg/Kg).

RL: Reporting limit (equivalent to practical quantification limit (PQL))

1. <: Less than method reporting limit

2. Depth in feet below native ground surface

J: Analyte detected between MDL and RL

N: Parameter not NELAC certified

Bold values indicate that analyte was detected

Highlighted values indicate concentrations above mean background concentration

Table 3
Vadose Soil Metals Analytical Data Summary
R360 Artesia LLC Landfarm (NM1-30-0)
Lea County, New Mexico

| Cell | Date | Depth (feet) | RL | Arsenic (mg/Kg) | RL | Barium (mg/Kg) | RL | Cadmium (mg/Kg) | RL | Chromium (mg/Kg) | RL | Lead (mg/Kg) | RL | Mercury (mg/Kg) | RL | Selenium (mg/Kg) | RL | Silver (mg/Kg) |
|------|--|---|---|--|---------------------------------------|---------------------------------------|--|--|---------------------------------------|---------------------------------------|---|--------------------------------------|---|---|---|--|---|---|
| | | | | Background: Mean Concentration: | 1.63 | 21.0 | | <0.117 | | 4.81 | | 2.87 | | <0.016 | | 0.597 | | <0.099 |
| | | | | Background PQJ (RL): | 0.983 - 0.995 | 1.97 - 1.98 | | 0.298 - 0.295 | | 1.97 - 1.99 | | 0.295 - 0.298 | | 0.0373 - 0.0406 | | 0.491 - 0.497 | | 0.197 - 0.199 |
| 1 | 11/30/2012 03/26/2013 03/12/2014 04/04/2015 03/16/2016 | 2 - 3 2 - 3 2 - 3 2 - 3 2 - 3 | 1.05 1.08 0.645 0.008 1.08 | 2.31 5.16 3.77 1.60 3.15 | 105 2.16 1.29 0.001 2.16 | 174 70.0 59.7 19.0 63.2 | 0.315 0.324 0.193 0.001 0.323 | <0.105 0.290 0.131 <0.001 <0.323 | 2.10 2.16 1.29 0.091 2.16 | 5.53 13.7 12.9 3.50 12.1 | 0.315 0.324 0.193 0.011 0.323 | 2.82 7.65 5.60 2.50 4.71 | 0.0354 0.0406 0.0220 0.00025 0.0412 | <0.0142 <0.0162 <0.00879 <0.00025 <0.0412 | 0.525 0.541 0.322 0.004 0.539 | 0.398 2.49 0.785 <0.004 0.383 | 0.210 0.216 0.129 0.005 0.216 | <0.105 <0.108 <0.0645 <0.005 <0.216 |
| 2 | 11/30/2012 03/26/2013 03/12/2014 06/16/2015 03/16/2016 | 2 - 3 2 - 3 2 - 3 2 - 3 2 - 3 | 1.03 1.01 1.10 2.00 1.16 | 3.67 4.46 4.65 <2.00 1.35 | 103 101 2.21 1.00 2.33 | 137 1,160 198 55.5 70.5 | 0.310 0.308 0.331 0.500 0.349 | <0.103 0.246 0.133 <0.500 <0.349 | 2.07 2.02 2.21 0.500 2.33 | 8.23 7.73 6.37 4.14 <3.32 | 0.310 0.303 0.331 1.00 0.349 | 3.83 3.76 3.05 4.14 1.37 | 0.0371 0.0386 0.0434 0.025 0.0490 | <0.0149 <0.0154 <0.0174 <0.0250 <0.0490 | 0.517 0.504 0.552 2.00 0.582 | 0.455 1.32 0.581 <2.00 <0.582 | 0.207 0.202 0.221 0.500 0.233 | <0.103 <0.101 <0.110 <0.500 <0.233 |
| 3 | 11/30/2012 03/26/2013 03/12/2014 04/04/2015 03/16/2016 | 2 - 3 2 - 3 2 - 3 2 - 3 2 - 3 | 0.896 0.989 0.662 0.008 0.937 | 1.65 2.95 4.40 2.50 0.680 ^j | 1.79 1.98 132 0.001 1.87 | 40.7 49.3 1,120 33.0 18.8 | 0.269 0.297 0.199 <0.001 0.281 | <0.0896 0.198 0.136 <0.001 <0.281 | 1.79 1.98 1.32 0.091 1.87 | 5.88 8.91 4.87 6.20 2.60 | 0.269 0.297 0.199 0.011 0.281 | 2.88 5.29 2.21 4.00 1.13 | 0.0362 0.0367 0.0241 0.00025 0.0401 | <0.0145 <0.0147 <0.00964 <0.00025 <0.0401 | 0.488 0.494 0.331 0.004 0.469 | 0.370 1.39 0.571 <0.004 <0.469 | 0.179 0.198 0.132 0.005 0.187 | <0.0896 <0.0989 <0.662 <0.005 <0.187 |
| 4 | 11/30/2012 03/26/2013 03/12/2014 04/04/2015 03/16/2016 | 2 - 3 2 - 3 2 - 3 2 - 3 2 - 3 | 0.909 0.975 0.668 0.008 1.07 | 1.02 1.30 1.67 2.70 4.04 | 1.82 1.95 1.34 0.001 2.13 | 16.4 25.0 35.7 82.0 149 | 0.273 0.292 0.200 <0.001 0.320 | <0.0909 0.127 0.0927 <0.001 0.264 ^j | 1.82 1.95 1.34 0.091 2.13 | 4.21 4.56 7.36 5.70 16.3 | 0.273 0.292 0.200 0.011 0.320 | 2.08 4.36 4.47 3.60 46.5 | 0.0369 0.0403 0.0240 0.00025 0.0415 | <0.0148 <0.0161 <0.00959 <0.00025 0.0688 | 0.454 0.487 0.334 0.004 0.534 | 0.245 0.765 0.553 <0.004 0.966 | 0.182 0.195 0.134 0.005 0.213 | <0.0909 <0.0975 <0.0668 <0.005 <0.213 |
| 5 | 11/30/2012 03/22/2013 03/12/2014 04/04/2015 03/16/2016 | 2 - 3 2 - 3 2 - 3 2 - 3 2 - 3 | 1.05 0.927 1.19 0.008 1.01 | 1.94 1.20 3.98 2.00 2.26 | 105 1.85 2.38 0.001 2.03 | 605 20.9 198 250 158 | 0.314 0.278 0.357 <0.001 0.304 | 0.181 0.102 0.195 <0.001 <0.304 | 2.09 1.85 2.38 0.091 2.03 | 7.19 3.71 11.4 4.20 8.92 | 0.314 0.278 0.357 0.011 0.304 | 4.12 2.23 6.65 2.60 5.75 | 0.0383 0.0394 0.0472 0.00025 0.0391 | <0.0153 <0.0158 0.0204 <0.00025 0.0173 ^j | 0.523 0.463 0.595 0.004 0.506 | 0.453 0.756 1.05 <0.004 0.267 ^j | 0.209 0.185 0.238 0.005 0.203 | <0.105 <0.0927 <0.119 <0.005 <0.203 |
| 6 | 11/30/2012 03/23/2013 03/12/2014 | 2 - 3 2 - 2.7 2 - 3 | 0.873 0.940 1.18 | 1.21 1.32 3.18 | 1.75 1.88 2.35 | 19.4 26.7 300 | 0.262 0.282 0.353 | <0.0873 <0.0940 0.120 | 1.75 1.88 2.35 | 4.02 4.03 6.61 | 0.262 0.282 0.353 | 2.15 2.17 3.24 | 0.0341 0.0380 0.0228 | <0.0136 0.0152 0.00913 | 0.437 0.470 0.588 | 0.276 0.610 0.626 | 0.175 0.188 0.235 | <0.0873 <0.094 <0.118 |

| | | | | | | | | | | | | | | | | |
|------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04/04/2015 | 2 - 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 03/16/2016 | 2 - 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX and Permian Basin Environmental Lab, Midland, TX by EPA SW-846 6010B and 747.

Results are reported in milligram per kilogram (mg/Kg) equivalent to parts per million (ppm)

RL: Reporting limit (equivalent to practical quantification limit [PQL])

<: Not detected at method detection limit

~: No data available

* Treated soil removed from cell therefore no vadose sample was collected

J: Analyte detected between MDL and RL

Bold values indicate that analyte was detected

Highlighted values indicate concentrations above mean background concentration

Table 4
Vadose Soil Anion and Cation Analytical Data Summary
R360 Artesia LLC Landfarm (NM1-030)
Lea County, New Mexico

| Cell | Sample Date | Depth (Feet) | RL | Calcium (mg/Kg) | RL | Magnesium (mg/Kg) | RL | Potassium (mg/Kg) | RL | Sodium (mg/Kg) | RL | Alkalinity (mg/Kg) | RL | Chloride (mg/Kg) | RL | Sulfate (mg/Kg) |
|--------------------|---|---|--------------------------------------|---|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---------------------------------------|---------------------------------------|---|---------------------------------------|--------------------------------------|-------------------------------------|---------------------------------------|
| Background: | | | | | | | | | | | | | | | | |
| 1 | 11/19/2012 06/13/2013 03/12/2014 04/14/2015 3/16/2016 | 2 - 3 2 - 3 2 - 3 2 - 3 2 - 3 | 656 1,270 80.6 0.081 404 | 149,000 257,000 14,300 1,960 8,460 | 656 12.7 8.06 0.036 40.4 | 2,730 807 2,570 620 2,360 | 656 12.7 8.06 0.060 40.4 | 1,590 206 3,570 815 3,030 | 13.1 12.7 8.06 0.043 40.4 | 75.5 58.8 105 130 150 | 52.7 54.6 61.9 4,500 54.7 | 809 116 186 1,09 209 | 5.30 54.6 6.11 1.09 5.55 | 7.51 361 57.9 5.78 133 | 10.6 10.9 12.2 0.5 11.1 | 19.6 162 140 48.3 336 |
| 2 | 11/19/2012 06/13/2013 03/12/2014 06/16/2015 3/16/2016 | 2 - 3 2 - 3 2 - 3 2 - 3 2 - 3 | 647 1,340 690 10 436 | 127,000 163,000 208,000 20,000 33,300 | 647 13.4 13.8 10 43.6 | 3,920 696 4,300 1,060 857 | 647 13.4 13.8 10 43.6 | 2,430 319 1,540 890 770 | 647 13.4 13.8 10 43.6 | 906 103 525 122 46.9 | 54.7 56.7 56.1 20 60.8 | 1,130 5,080 1,310 530 1,590 | 5.46 5.60 5.20 25.00 5.74 | 59.9 100 124 256 14.4 | 10.9 11.2 10.4 25 11.5 | 320 424 392 165 425 |
| 3 | 11/19/2012 06/13/2013 03/12/2014 04/14/2015 3/16/2016 | 2 - 3 2 - 3 2 - 3 2 - 3 2 - 3 | 560 1,270 827 0.081 35.1 | 7,710 229,000 223,000 1,090 4,630 | 560 63.7 827 0.036 35.1 | 1,360 9,720 4,800 1,430 508 | 560 63.7 8.27 0.060 35.1 | 1,590 999 911 1,650 535 | 560 63.7 8.27 0.043 35.1 | 964 193 436 505 58.0 | 50.7 55.0 63.5 2.00 50.9 | 1,470 1,440 1,250 4,000 182 | 5.11 8.59 5.36 1.10 5.01 | 181 8.59 118 33.7 21.4 | 10.2 4.78 10.7 0.5 100 | 345 478 578 148 890 |
| 4 | 11/19/2012 06/13/2013 03/12/2014 04/14/2015 3/16/2016 | 2 - 3 2 - 3 2 - 3 2 - 3 2 - 3 | 11.4 12.5 83.5 0.081 801 | 525 889 12,400 35,200 56,200 | 11.4 12.5 83.5 0.036 40.0 | 814 921 1,980 6,920 9,890 | 11.4 12.5 83.5 0.060 40.0 | 1,020 1,250 1,400 1,650 2,980 | 11.4 12.5 8.35 0.043 40.0 | 75.0 22.3 210 198 394 | 50.3 50.7 64.7 2.00 52.9 | 71.0 53.2 116 4,000 140 | 5.09 5.06 5.53 1.10 5.31 | 72.1 103 87.7 70.0 255 | 10.2 10.1 111 0.5 1,060 | 77.6 29.9 1,340 158 9,110 |
| 5 | 11/19/2012 06/13/2013 03/12/2014 04/14/2015 3/16/2016 | 2 - 3 2 - 3 2 - 3 2 - 3 2 - 3 | 654 7.50 744 0.081 380 | 32,100 451 86,100 23,300 31,200 | 654 7.50 14.9 0.036 38.0 | 2,970 591 2,410 1,860 2,610 | 654 7.50 14.9 0.060 38.0 | 1,600 85 2,290 1,020 1,810 | 654 7.50 14.9 0.043 38.0 | 2,160 248 609 2,910 1,130 | 55.4 59.3 62.8 2.00 55.5 | 562 103 260 4,500 183 | 55.0 5.99 59.4 1.16 529 | 2,020 18.3 624 100 3,120 | 110 12.0 11.9 0.5 1,060 | 1,770 13.5 332 62.8 2,550 |
| 6 | 11/19/2012 06/13/2013 03/12/2014 04/14/2015 3/16/2016 | 2 - 3 2 - 3 2 - 3 2 - 3 2 - 3 | 546 12.2 735 * * | 668 889 102,000 * * | 546 12.2 14.7 * * | 663 579 2,270 * * | 546 12.2 14.7 * * | 884 822 1,510 * * | 546 12.2 14.7 * * | 23.6 37.1 420 * * | 50.4 51.4 62.2 * * | 84.7 189 275 * * | 5.09 5.11 5.49 * * | 58.9 13.8 256 * * | 10.2 10.2 11.0 * * | 22.5 <10.2 166 * * |

Notes: Analysis performed by DHL Analytical, Round Rock, Texas and Trace Analysis, Inc., Lubbock, Texas by EPA SW-846 methods 6010B, 300.0 and 310.0

Results are reported in milligram per kilogram (mg/Kg) equivalent to parts per million (ppm).

RL: Reporting limit (equivalent to practical quantification limit (PQL))

<: Not detected at method RL

- No data available

Bold values indicate that analyte was detected

Highlighted values indicate concentrations above mean background concentration

Figures



Figure 1 - Topographic Map



850 0 850
Graphic Scale In Feet

R-360 Environmental

32°51'06.78"N
103°48'16.35"W

Arson & Associates, Inc.
Environmental Consultants

Figure 2 Aerial

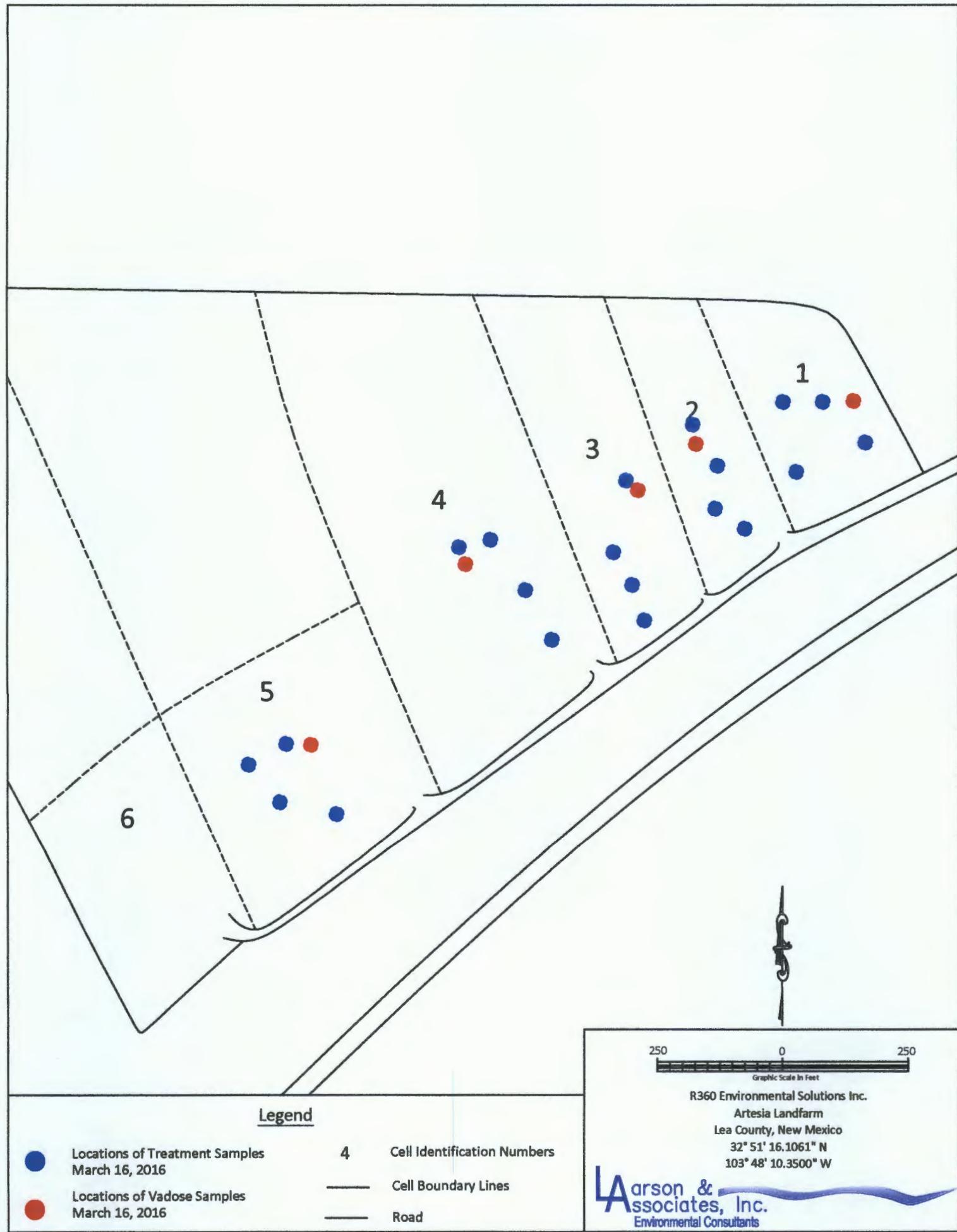


Figure 3 - Site Map with Composite Treatment & Vadose Samples March 16, 2016

Appendix A



March 29, 2016

Mark Larson
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456
RE: R360 Artesia Landfarm

Order No.: 1603209

Dear Mark Larson:

DHL Analytical, Inc. received 10 sample(s) on 3/18/2016 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-15-15



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2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com



Nº 68976

CHAIN-OF-CUSTODY

CLIENT: Larson & Associates
ADDRESS: 507 Marienfeld
PHONE: (432) 687-0901 FAX/E-MAIL: _____
DATA REPORTED TO: Mark Larson
ADDITIONAL REPORT COPIES TO:

DATE: 3/17/2016

PAGE 1 OF 603209

PROJECT LOCATION OR NAME: R360 Ardesia Landfarm
CLIENT PROJECT #: 15-0121-01 COLLECTOR: Sarah Shissler/Ciaran Hughes

| Authorize 5% surcharge for TRRP Report? | | S=SOIL W=WATER A=AIR L=LIQUID SE=SEDIMENT | P=PAINT SL=SLUDGE O=OTHER SO=SOLID | PRESERVATION | | | | | | | | |
|---|-----------------------------|---|---|-----------------|----------------|------------------|------------------------------------|--------|-----|-------------|---|--|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | | | # of Containers | HCl | HNO ₃ | H ₂ SO ₄ , □ | NaOH □ | ICE | UNPRESERVED | | |
| Field Sample I.D. | DHL Lab # | Date | Time | Matrix | Container Type | | | | | | | |
| DP-1 (2-3) | 01 | 3/16/16 | 1230 | S | glass | 2 | | X | X | X | | |
| DP-2 (2-3) | 02 | 3/16/16 | 1300 | S | | 1 | | | | | X | |
| DP-3 (2-3) | 03 | 3/16/16 | 1315 | S | | | | | | | X | |
| DP-4 (2-3) | 04 | 3/16/16 | 1330 | S | | | | | | | X | |
| DP-5 (2-3) | 05 | 3/16/16 | 1345 | S | | | | | | | X | |
| Comp-1 (0-1) | 06 | 3/16/16 | 1235 | S | | 1 | | | | | | |
| Comp-2 (0-1) | 07 | 3/16/16 | 1300 | S | | | | | | | | |
| Comp-3 (0-1) | 08 | 3/16/16 | 1315 | S | | | | | | | | |
| Comp-4 (0-1) | 09 | 3/16/16 | 1330 | S | | | | | | | | |
| Comp-5 (0-1) | 10 | 3/16/16 | 1345 | S | | | | | | | | |

per mark
Q3 3/18/16

| | | |
|--|--|---|
| | TURN AROUND TIME | LABORATORY USE ONLY: |
| | RUSH <input type="checkbox"/> CALL FIRST | RECEIVING TEMP: <u>25</u> THERM #: <u>78</u> |
| | 1 DAY <input type="checkbox"/> CALL FIRST | CUSTODY SEALS: <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input checked="" type="checkbox"/> NOT USED |
| | 2 DAY <input type="checkbox"/> | CARRIER: <input checked="" type="checkbox"/> LONE STAR <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> OTHER |
| | NORMAL <input checked="" type="checkbox"/> | <input type="checkbox"/> COURIER DELIVERY |
| | OTHER <input type="checkbox"/> _____ | <input type="checkbox"/> HAND DELIVERED |

| | | |
|------------------------------|-------------------|--------------------------|
| RELINQUISHED BY: (Signature) | DATE/TIME | RECEIVED BY: (Signature) |
| <i>C. M. M.</i> | 3/17/2016 8:43 AM | <i>Lonestar</i>) |
| RELINQUISHED BY: (Signature) | DATE/TIME | RECEIVED BY: (Signature) |
| <i>Lonestar</i>) | 3/18/2016 9:00 AM | <i>J. Foran</i>) |
| RELINQUISHED BY: (Signature) | DATE/TIME | RECEIVED BY: (Signature) |

TURN AROUND TIME

RUSH CALL FIRST
1 DAY CALL FIRST
2 DAY
NORMAL
OTHER _____

| | |
|---|--------------------|
| LABORATORY USE ONLY: | |
| RECEIVING TEMP: <u>25</u> | THERM #: <u>78</u> |
| CUSTODY SEALS: <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input checked="" type="checkbox"/> NOT USED | |
| CARRIER: <input checked="" type="checkbox"/> LONE STAR <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS <input type="checkbox"/> OTHER | |
| <input type="checkbox"/> COURIER DELIVERY | |
| <input type="checkbox"/> HAND DELIVERED | |

DHL DISPOSAL @ \$5.00 each



WWW.LSO.COM
Questions? Call 800-800-8984

Airbill No. 47639737

47639737

1A

C

1B

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All rights reserved - 0507

Print Name (Person)

Phone (Important)

J. Barker (512)388-8222

Print Name (Person)

Phone (Important)

JARK LARSON

432-687-0901

Company Name

DHL Analytical

Street Address (No P.O. Box or P.O. Box Zip Code Delivers)

2300 Double Creek Dr.

Suite / Floor

Round

City

State

Zip

Round Rock TX 78664

3. Service:

Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online.

By 10:30 am Delivery Check availability at www.lso.com

Saturday Delivery Check availability at www.lso.com
(Extra charge, not available on Ground)

By 8:30 am Delivery Check availability at www.lso.com
(Extra charge, no signature obtained)

Other _____

By 3:00 pm Delivery

Assumed 10:30 a.m. service unless otherwise noted.

Ground (next day to most cities)

Deliver Without Delivery Signature (See Limits of Liability below)

Release Signature

L x W x H

LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not to exceed \$25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 08:30 AM DELIVERIES. PRIORITY SERVICE PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.

2. From:

Print Name (Person)

JARK LARSON

Company Name

LARSON & ASSOCIATES INC.

Street Address

507 N. MARIENFIELD

Suite / Floor

200

City

State

Zip

MIDLAND

TX

79701

4. Package:

Weight: _____

Your Company's Billing Reference Information

Ship Date: (mm/dd/yy)

3 17 16

FOR COURIER
USE ONLY

Courier Number

Check here if LSO Supplies are used with Ground Service.

Pick-up Location

Date

Time:

City/Code:

5. Payment:

[Handwritten signatures and initials over the payment section]

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name Larson & Associates

Date Received: 3/18/2016

Work Order Number 1803209

Received by JT

Checklist completed by:

3/18/2016

Date

Reviewed by:

3/18/2016

Date

Carrier name LoneStar

| | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 2.5 °C |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH<2 acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # _____ |
| Adjusted? | Checked by _____ | | |
| Water - pH>9 (S) or pH>12 (CN) acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # _____ |
| Adjusted? | Checked by _____ | | |

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1603209

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7471B - Mercury Analysis
Method M8015D - DRO Analysis
Method M8015V - GRO Analysis
Method SW8021B - Volatile Organics by GC Analysis
Method E418.1 - Petroleum Hydrocarbons, TR Analysis (This parameter is not NELAC Certified)
Method SW9056A - Anions Analysis
Method M2320 B - Soluble Alkalinity Analysis
Method D2216 - Percent Moisture Analysis

LOG IN

The samples were received and log-in performed on 3/18/2016. A total of 10 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

The report includes the column RL and this is defined as the Reporting Limit. This term is also known as the Practical Quantitation Limit (PQL) in some state environmental programs. If the result for a target compound is non-detect, then it is reported as <RL for that compound.

VOLATILE ORGANICS BY GC ANALYSIS

As per the TCEQ-NELAP accreditation requirement the following must be noted: As of January 1, 2016, the TCEQ remediation division guidance on the collection of soil for VOC analysis requires the use of Method 5035 and will reject VOC data reported for soil samples collected and prepared using another method; this applies to remediation testing only. For analyses reported to TCEQ for waste characterization, TCLP testing or matrices other than soil, bulk sampling is allowed. For analyses reported to the Texas Railroad Commission, bulk sampling is allowed. NELAP requires a note that if 5035 sampling method for VOCs is not utilized, the results of samples collected in bulk containers for low level volatile components may be compromised. The client has been notified and has requested the Laboratory to proceed with analysis.

TX1005 ANALYSIS

As per the TCEQ-NELAP accreditation requirement the following must be noted: For TX1005 analyses of soils, the samples were collected in 4 ounce jars. This is allowed in Method TX1005 and by regulatory agencies for specific situations. For analyses reported to the Texas Railroad Commission, bulk sampling is allowed. For analyses reported for the TCEQ PST program, for waste classification,

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1603209

CASE NARRATIVE

or for remediation project where process knowledge can document that C6-C12 hydrocarbons are not present, then Method 1005 allows for bulk sampling. NELAP requires a note that if 5035 sampling method for TX1005 is not utilized and none of the exceptions are applicable, the results of samples collected in bulk containers for C6-C12 hydrocarbon components may be compromised. The client has been notified and has requested the Laboratory to proceed with analysis.

DRO ANALYSIS

For DRO Analysis, the recovery of surrogate Octacosane for six samples, and the Matrix Spike Duplicate (1603209-01 MSD) was above the method control limits. These are flagged accordingly in the Analytical Data Report and the QC Summary Report. The remaining surrogate for these samples was within method control limits. No further corrective action was taken.

For DRO Analysis, the recovery of the Matrix Spike Duplicate (1603209-01 MSD) was above the method control limits. This is flagged accordingly in the QC Summary Report. The remaining surrogate for these samples was within method control limits. No further corrective action was taken.

GRO ANALYSIS

As per the TCEQ-NELAP accreditation requirement the following must be noted: NELAP requires a note that if 5035 sampling method for VOCs and GRO is not utilized, the results of samples collected in bulk containers for low level volatile components may be compromised and state environmental regulatory agencies will reject data if submitted for remediation projects. The client has been notified and has requested the Laboratory to proceed with analysis.

For GRO Analysis, the recoveries of the Matrix Spike and Matrix Spike Duplicate (1603209-10 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. The associated LCS was within method control limits. No further corrective action was taken.

METALS ANALYSIS

For Metals Analysis, the recoveries of up to four analytes for the Matrix Spike and Matrix Spike Duplicate (1603188-01 MS/MSD) were outside of the method control limits. Additionally, the RPD of Barium for the Matrix Spike Duplicate (1603188-01 MSD) was marginally above the method control limit. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. The reference sample selected for the Batch QC was not from this workorder. No further corrective action was taken.

For Metals Analysis, the RPD of Selenium for the Serial Dilution (1603188-01 SD) was above the method control limit. This is flagged accordingly in the QC Summary Report. The recovery of this

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CASE NARRATIVE

analyte was within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

For Metals Analysis, Calcium was detected below the reporting limit for Method Blank-74259. This analyte was detected in the associated samples at greater than 10x the amount detected in the blank. No further corrective action was taken.

ANIONS ANALYSIS

For Anions Analysis, the recoveries of two anions for the Matrix Spike and Matrix Spike Duplicate (1603209-10 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These anions were within method control limits in the associated LCS. The reference sample selected for the Batch QC was from this workorder. No further corrective action was taken.

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Work Order Sample Summary

| Lab Smp ID | Client Sample ID | Tag Number | Date Collected | Date Recved |
|-------------------|-------------------------|-------------------|-----------------------|--------------------|
| 1603209-01 | DP-1 (2-3) | | 03/16/16 12:30 PM | 3/18/2016 |
| 1603209-02 | DP-2 (2-3) | | 03/16/16 01:00 PM | 3/18/2016 |
| 1603209-03 | DP-3 (2-3) | | 03/16/16 01:15 PM | 3/18/2016 |
| 1603209-04 | DP-4 (2-3) | | 03/16/16 01:30 PM | 3/18/2016 |
| 1603209-05 | DP-5 (2-3) | | 03/16/16 01:45 PM | 3/18/2016 |
| 1603209-06 | COMP-1 (0-1) | | 03/16/16 12:35 PM | 3/18/2016 |
| 1603209-07 | COMP-2 (0-1) | | 03/16/16 01:00 PM | 3/18/2016 |
| 1603209-08 | COMP-3 (0-1) | | 03/16/16 01:15 PM | 3/18/2016 |
| 1603209-09 | COMP-4 (0-1) | | 03/16/16 01:30 PM | 3/18/2016 |
| 1603209-10 | COMP-5 (0-1) | | 03/16/16 01:45 PM | 3/18/2016 |

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PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|--------------------------------|-------------------|----------|
| 1603209-01A | DP-1 (2-3) | 03/16/16 12:30 PM | Soil | SW7471B | Mercury Soil Prep, Total | 03/24/16 09:47 AM | 74261 |
| | DP-1 (2-3) | 03/16/16 12:30 PM | Soil | SW5030C | Purge and Trap Soils GC | 03/22/16 10:02 AM | 74207 |
| | DP-1 (2-3) | 03/16/16 12:30 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 03/23/16 12:23 PM | 74248 |
| | DP-1 (2-3) | 03/16/16 12:30 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 03/24/16 09:45 AM | 74259 |
| | DP-1 (2-3) | 03/16/16 12:30 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 03/24/16 09:45 AM | 74259 |
| 1603209-01B | DP-1 (2-3) | 03/16/16 12:30 PM | Soil | USDA 60 | 1:5 Water Extract | 03/22/16 12:17 PM | 74217 |
| | DP-1 (2-3) | 03/16/16 12:30 PM | Soil | SW9056A | Anion Prep | 03/28/16 08:31 AM | 74292 |
| | DP-1 (2-3) | 03/16/16 12:30 PM | Soil | D2216 | Moisture Preparation | 03/25/16 11:19 AM | 74287 |
| | DP-1 (2-3) | 03/16/16 12:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| | DP-1 (2-3) | 03/16/16 12:30 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 03/23/16 11:52 AM | 74245 |
| 1603209-02A | DP-2 (2-3) | 03/16/16 01:00 PM | Soil | SW7471B | Mercury Soil Prep, Total | 03/24/16 09:47 AM | 74261 |
| | DP-2 (2-3) | 03/16/16 01:00 PM | Soil | SW5030C | Purge and Trap Soils GC | 03/22/16 10:02 AM | 74207 |
| | DP-2 (2-3) | 03/16/16 01:00 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 03/23/16 12:23 PM | 74248 |
| | DP-2 (2-3) | 03/16/16 01:00 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 03/24/16 09:45 AM | 74259 |
| | DP-2 (2-3) | 03/16/16 01:00 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 03/24/16 09:45 AM | 74259 |
| 1603209-02B | DP-2 (2-3) | 03/16/16 01:00 PM | Soil | USDA 60 | 1:5 Water Extract | 03/22/16 12:17 PM | 74217 |
| | DP-2 (2-3) | 03/16/16 01:00 PM | Soil | SW9056A | Anion Prep | 03/28/16 08:31 AM | 74292 |
| | DP-2 (2-3) | 03/16/16 01:00 PM | Soil | D2216 | Moisture Preparation | 03/25/16 11:19 AM | 74287 |
| | DP-2 (2-3) | 03/16/16 01:00 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| | DP-2 (2-3) | 03/16/16 01:00 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| 1603209-03A | DP-3 (2-3) | 03/16/16 01:15 PM | Soil | SW7471B | Mercury Soil Prep, Total | 03/24/16 09:47 AM | 74261 |
| | DP-3 (2-3) | 03/16/16 01:15 PM | Soil | SW5030C | Purge and Trap Soils GC | 03/22/16 10:02 AM | 74207 |
| | DP-3 (2-3) | 03/16/16 01:15 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 03/23/16 12:23 PM | 74248 |
| | DP-3 (2-3) | 03/16/16 01:15 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 03/24/16 09:45 AM | 74259 |
| | DP-3 (2-3) | 03/16/16 01:15 PM | Soil | USDA 60 | 1:5 Water Extract | 03/22/16 12:17 PM | 74217 |
| 1603209-03B | DP-3 (2-3) | 03/16/16 01:15 PM | Soil | SW9056A | Anion Prep | 03/28/16 08:31 AM | 74292 |
| | DP-3 (2-3) | 03/16/16 01:15 PM | Soil | SW9056A | Anion Prep | 03/28/16 08:31 AM | 74292 |

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PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|--------------------------------|-------------------|----------|
| 1603209-03B | DP-3 (2-3) | 03/16/16 01:15 PM | Soil | D2216 | Moisture Preparation | 03/25/16 11:19 AM | 74287 |
| | DP-3 (2-3) | 03/16/16 01:15 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| | DP-3 (2-3) | 03/16/16 01:15 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 03/23/16 11:52 AM | 74245 |
| 1603209-04A | DP-4 (2-3) | 03/16/16 01:30 PM | Soil | SW7471B | Mercury Soil Prep, Total | 03/24/16 09:47 AM | 74261 |
| | DP-4 (2-3) | 03/16/16 01:30 PM | Soil | SW5030C | Purge and Trap Soils GC | 03/22/16 10:02 AM | 74207 |
| | DP-4 (2-3) | 03/16/16 01:30 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 03/23/16 12:23 PM | 74248 |
| | DP-4 (2-3) | 03/16/16 01:30 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 03/24/16 09:45 AM | 74259 |
| 1603209-04B | DP-4 (2-3) | 03/16/16 01:30 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 03/24/16 09:45 AM | 74259 |
| | DP-4 (2-3) | 03/16/16 01:30 PM | Soil | USDA 60 | 1:5 Water Extract | 03/22/16 12:17 PM | 74217 |
| | DP-4 (2-3) | 03/16/16 01:30 PM | Soil | SW9056A | Anion Prep | 03/28/16 08:31 AM | 74292 |
| | DP-4 (2-3) | 03/16/16 01:30 PM | Soil | SW9056A | Anion Prep | 03/28/16 08:31 AM | 74292 |
| | DP-4 (2-3) | 03/16/16 01:30 PM | Soil | D2216 | Moisture Preparation | 03/25/16 11:19 AM | 74287 |
| 1603209-05A | DP-4 (2-3) | 03/16/16 01:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| | DP-4 (2-3) | 03/16/16 01:30 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 03/23/16 11:52 AM | 74245 |
| | DP-5 (2-3) | 03/16/16 01:45 PM | Soil | SW7471B | Mercury Soil Prep, Total | 03/24/16 09:47 AM | 74261 |
| | DP-5 (2-3) | 03/16/16 01:45 PM | Soil | SW5030C | Purge and Trap Soils GC | 03/22/16 10:02 AM | 74207 |
| | DP-5 (2-3) | 03/16/16 01:45 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 03/23/16 12:23 PM | 74248 |
| 1603209-05B | DP-5 (2-3) | 03/16/16 01:45 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 03/24/16 09:45 AM | 74259 |
| | DP-5 (2-3) | 03/16/16 01:45 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 03/24/16 09:45 AM | 74259 |
| | DP-5 (2-3) | 03/16/16 01:45 PM | Soil | USDA 60 | 1:5 Water Extract | 03/22/16 12:17 PM | 74217 |
| | DP-5 (2-3) | 03/16/16 01:45 PM | Soil | SW9056A | Anion Prep | 03/28/16 08:31 AM | 74292 |
| | DP-5 (2-3) | 03/16/16 01:45 PM | Soil | D2216 | Moisture Preparation | 03/25/16 11:19 AM | 74287 |
| 1603209-06A | DP-5 (2-3) | 03/16/16 01:45 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| | DP-5 (2-3) | 03/16/16 01:45 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 03/23/16 11:52 AM | 74245 |
| | COMP-1 (0-1) | 03/16/16 12:35 PM | Soil | SW9056A | Anion Prep | 03/28/16 08:31 AM | 74292 |
| | COMP-1 (0-1) | 03/16/16 12:35 PM | Soil | D2216 | Moisture Preparation | 03/25/16 11:19 AM | 74287 |
| | COMP-1 (0-1) | 03/16/16 12:35 PM | Soil | SW5030C | Purge and Trap Soils GC | 03/22/16 10:02 AM | 74207 |
| | COMP-1 (0-1) | 03/16/16 12:35 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 03/23/16 12:23 PM | 74248 |

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PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|------------------------------|-------------------|----------|
| 1603209-06A | COMP-1 (0-1) | 03/16/16 12:35 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| | COMP-1 (0-1) | 03/16/16 12:35 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| | COMP-1 (0-1) | 03/16/16 12:35 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 03/23/16 11:52 AM | 74245 |
| 1603209-07A | COMP-2 (0-1) | 03/16/16 01:00 PM | Soil | SW9056A | Anion Prep | 03/28/16 08:31 AM | 74292 |
| | COMP-2 (0-1) | 03/16/16 01:00 PM | Soil | D2216 | Moisture Preparation | 03/25/16 11:19 AM | 74287 |
| | COMP-2 (0-1) | 03/16/16 01:00 PM | Soil | SW5030C | Purge and Trap Soils GC | 03/22/16 10:02 AM | 74207 |
| | COMP-2 (0-1) | 03/16/16 01:00 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 03/23/16 12:23 PM | 74248 |
| | COMP-2 (0-1) | 03/16/16 01:00 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| | COMP-2 (0-1) | 03/16/16 01:00 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| 1603209-08A | COMP-2 (0-1) | 03/16/16 01:00 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 03/23/16 11:52 AM | 74245 |
| | COMP-3 (0-1) | 03/16/16 01:15 PM | Soil | SW9056A | Anion Prep | 03/28/16 08:31 AM | 74292 |
| | COMP-3 (0-1) | 03/16/16 01:15 PM | Soil | D2216 | Moisture Preparation | 03/25/16 11:19 AM | 74287 |
| | COMP-3 (0-1) | 03/16/16 01:15 PM | Soil | SW5030C | Purge and Trap Soils GC | 03/22/16 10:02 AM | 74207 |
| | COMP-3 (0-1) | 03/16/16 01:15 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 03/23/16 12:23 PM | 74248 |
| | COMP-3 (0-1) | 03/16/16 01:15 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| | COMP-3 (0-1) | 03/16/16 01:15 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| 1603209-09A | COMP-3 (0-1) | 03/16/16 01:15 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 03/23/16 11:52 AM | 74245 |
| | COMP-4 (0-1) | 03/16/16 01:30 PM | Soil | SW9056A | Anion Prep | 03/28/16 08:31 AM | 74292 |
| | COMP-4 (0-1) | 03/16/16 01:30 PM | Soil | D2216 | Moisture Preparation | 03/25/16 11:19 AM | 74287 |
| | COMP-4 (0-1) | 03/16/16 01:30 PM | Soil | SW5030C | Purge and Trap Soils GC | 03/22/16 10:02 AM | 74207 |
| | COMP-4 (0-1) | 03/16/16 01:30 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 03/23/16 12:23 PM | 74248 |
| | COMP-4 (0-1) | 03/16/16 01:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| | COMP-4 (0-1) | 03/16/16 01:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| 1603209-10A | COMP-4 (0-1) | 03/16/16 01:30 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 03/23/16 11:52 AM | 74245 |
| | COMP-5 (0-1) | 03/16/16 01:45 PM | Soil | SW9056A | Anion Prep | 03/28/16 08:31 AM | 74292 |
| | COMP-5 (0-1) | 03/16/16 01:45 PM | Soil | D2216 | Moisture Preparation | 03/25/16 11:19 AM | 74287 |
| | COMP-5 (0-1) | 03/16/16 01:45 PM | Soil | SW5030C | Purge and Trap Soils GC | 03/22/16 10:02 AM | 74207 |
| | COMP-5 (0-1) | 03/16/16 01:45 PM | Soil | SW5030C | Purge and Trap Soils GC- Gas | 03/23/16 12:23 PM | 74248 |

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PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|----------------------------|-------------------|----------|
| 1603209-10A | COMP-5 (0-1) | 03/16/16 01:45 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| | COMP-5 (0-1) | 03/16/16 01:45 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 03/24/16 01:27 PM | 74269 |
| | COMP-5 (0-1) | 03/16/16 01:45 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 03/23/16 11:52 AM | 74245 |

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ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|------------------------------|----------|----------|-------------------|-------------------|
| 1603209-01A | DP-1 (2-3) | Soil | SW7471B | Total Mercury: Soil/Solid | 74261 | 1 | 03/24/16 03:22 PM | CETAC2_HG_160324A |
| | DP-1 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 74248 | 1 | 03/23/16 04:24 PM | GC4_160323A |
| | DP-1 (2-3) | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 74259 | 5 | 03/24/16 06:13 PM | ICP-MS4_160324H |
| | DP-1 (2-3) | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 74259 | 50 | 03/25/16 02:19 PM | ICP-MS4_160325A |
| | DP-1 (2-3) | Soil | SW8021B | Volatile Organics by GC | 74207 | 1 | 03/22/16 12:14 PM | GC4_160322A |
| 1603209-01B | DP-1 (2-3) | Soil | SW9056A | Anions by IC method - Soil | 74292 | 1 | 03/28/16 10:48 AM | IC2_160328A |
| | DP-1 (2-3) | Soil | D2216 | Percent Moisture | 74287 | 1 | 03/28/16 10:17 AM | PMOIST_160325A |
| | DP-1 (2-3) | Soil | M2320 B | Soluble Alkalinity of Soil | 74217 | 1 | 03/23/16 10:16 AM | TITRATOR_160323A |
| | DP-1 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 1 | 03/25/16 10:21 AM | GC15_160325A |
| | DP-1 (2-3) | Soil | E418.1 | TRPH | 74245 | 1 | 03/23/16 02:30 PM | IR207_160323A |
| 1603209-02A | DP-2 (2-3) | Soil | SW7471B | Total Mercury: Soil/Solid | 74261 | 1 | 03/24/16 03:24 PM | CETAC2_HG_160324A |
| | DP-2 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 74248 | 1 | 03/23/16 04:48 PM | GC4_160323A |
| | DP-2 (2-3) | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 74259 | 5 | 03/24/16 06:29 PM | ICP-MS4_160324H |
| | DP-2 (2-3) | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 74259 | 50 | 03/25/16 02:21 PM | ICP-MS4_160325A |
| | DP-2 (2-3) | Soil | SW8021B | Volatile Organics by GC | 74207 | 1 | 03/22/16 12:38 PM | GC4_160322A |
| 1603209-02B | DP-2 (2-3) | Soil | SW9056A | Anions by IC method - Soil | 74292 | 1 | 03/28/16 11:02 AM | IC2_160328A |
| | DP-2 (2-3) | Soil | D2216 | Percent Moisture | 74287 | 1 | 03/28/16 10:17 AM | PMOIST_160325A |
| | DP-2 (2-3) | Soil | M2320 B | Soluble Alkalinity of Soil | 74217 | 1 | 03/23/16 10:26 AM | TITRATOR_160323A |
| | DP-2 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 1 | 03/25/16 10:48 AM | GC15_160325A |
| | DP-2 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 1 | 03/25/16 12:57 PM | GC15_160325A |
| 1603209-03A | DP-2 (2-3) | Soil | E418.1 | TRPH | 74245 | 1 | 03/23/16 02:30 PM | IR207_160323A |
| | DP-3 (2-3) | Soil | SW7471B | Total Mercury: Soil/Solid | 74261 | 1 | 03/24/16 03:26 PM | CETAC2_HG_160324A |
| | DP-3 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 74248 | 1 | 03/23/16 05:12 PM | GC4_160323A |
| 1603209-03B | DP-3 (2-3) | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 74259 | 5 | 03/24/16 06:31 PM | ICP-MS4_160324H |
| | DP-3 (2-3) | Soil | SW8021B | Volatile Organics by GC | 74207 | 1 | 03/22/16 01:04 PM | GC4_160322A |
| | DP-3 (2-3) | Soil | SW9056A | Anions by IC method - Soil | 74292 | 1 | 03/28/16 11:17 AM | IC2_160328A |

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ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|------------------------------|----------|----------|-------------------|-------------------|
| 1603209-03B | DP-3 (2-3) | Soil | SW9056A | Anions by IC method - Soil | 74292 | 10 | 03/28/16 02:08 PM | IC2_160328A |
| | DP-3 (2-3) | Soil | D2216 | Percent Moisture | 74287 | 1 | 03/28/16 10:17 AM | PMOIST_160325A |
| | DP-3 (2-3) | Soil | M2320 B | Soluble Alkalinity of Soil | 74217 | 1 | 03/23/16 10:29 AM | TITRATOR_160323A |
| | DP-3 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 1 | 03/25/16 10:57 AM | GC15_160325A |
| | DP-3 (2-3) | Soil | E418.1 | TRPH | 74245 | 1 | 03/23/16 02:30 PM | IR207_160323A |
| 1603209-04A | DP-4 (2-3) | Soil | SW7471B | Total Mercury: Soil/Solid | 74261 | 1 | 03/24/16 03:29 PM | CETAC2_HG_160324A |
| | DP-4 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 74248 | 1 | 03/23/16 05:36 PM | GC4_160323A |
| | DP-4 (2-3) | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 74259 | 100 | 03/25/16 02:23 PM | ICP-MS4_160325A |
| | DP-4 (2-3) | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 74259 | 5 | 03/24/16 06:33 PM | ICP-MS4_160324H |
| | DP-4 (2-3) | Soil | SW8021B | Volatile Organics by GC | 74207 | 1 | 03/22/16 01:28 PM | GC4_160322A |
| 1603209-04B | DP-4 (2-3) | Soil | SW9056A | Anions by IC method - Soil | 74292 | 1 | 03/28/16 11:32 AM | IC2_160328A |
| | DP-4 (2-3) | Soil | SW9056A | Anions by IC method - Soil | 74292 | 100 | 03/28/16 02:22 PM | IC2_160328A |
| | DP-4 (2-3) | Soil | D2216 | Percent Moisture | 74287 | 1 | 03/28/16 10:17 AM | PMOIST_160325A |
| | DP-4 (2-3) | Soil | M2320 B | Soluble Alkalinity of Soil | 74217 | 1 | 03/23/16 10:32 AM | TITRATOR_160323A |
| | DP-4 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 1 | 03/25/16 11:06 AM | GC15_160325A |
| 1603209-05A | DP-5 (2-3) | Soil | SW7471B | Total Mercury: Soil/Solid | 74261 | 1 | 03/24/16 03:36 PM | CETAC2_HG_160324A |
| | DP-5 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 74248 | 1 | 03/23/16 06:00 PM | GC4_160323A |
| | DP-5 (2-3) | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 74259 | 5 | 03/24/16 06:35 PM | ICP-MS4_160324H |
| | DP-5 (2-3) | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 74259 | 50 | 03/25/16 02:25 PM | ICP-MS4_160325A |
| | DP-5 (2-3) | Soil | SW8021B | Volatile Organics by GC | 74207 | 1 | 03/22/16 01:52 PM | GC4_160322A |
| 1603209-05B | DP-5 (2-3) | Soil | SW9056A | Anions by IC method - Soil | 74292 | 100 | 03/28/16 02:37 PM | IC2_160328A |
| | DP-5 (2-3) | Soil | D2216 | Percent Moisture | 74287 | 1 | 03/28/16 10:17 AM | PMOIST_160325A |
| | DP-5 (2-3) | Soil | M2320 B | Soluble Alkalinity of Soil | 74217 | 1 | 03/23/16 10:36 AM | TITRATOR_160323A |
| | DP-5 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 1 | 03/25/16 11:15 AM | GC15_160325A |
| | DP-5 (2-3) | Soil | E418.1 | TRPH | 74245 | 1 | 03/23/16 02:30 PM | IR207_160323A |
| 1603209-06A | COMP-1 (0-1) | Soil | SW9056A | Anions by IC method - Soil | 74292 | 10 | 03/28/16 02:52 PM | IC2_160328A |

Lab Order: 1603209
Client: Larson & Associates
Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|------------------------------|----------|----------|-------------------|----------------|
| 1603209-06A | COMP-1 (0-1) | Soil | D2216 | Percent Moisture | 74287 | 1 | 03/28/16 10:17 AM | PMOIST_160325A |
| | COMP-1 (0-1) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 1 | 03/25/16 11:24 AM | GC15_160325A |
| | COMP-1 (0-1) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 2 | 03/25/16 01:15 PM | GC15_160325A |
| | COMP-1 (0-1) | Soil | M8015V | TPH Purgeable by GC - Soil | 74248 | 1 | 03/23/16 06:24 PM | GC4_160323A |
| | COMP-1 (0-1) | Soil | E418.1 | TRPH | 74245 | 5 | 03/23/16 02:30 PM | IR207_160323A |
| | COMP-1 (0-1) | Soil | SW8021B | Volatile Organics by GC | 74207 | 1 | 03/22/16 02:17 PM | GC4_160322A |
| | COMP-1 (0-1) | Soil | SW9056A | Anions by IC method - Soil | 74292 | 100 | 03/28/16 03:06 PM | IC2_160328A |
| 1603209-07A | COMP-2 (0-1) | Soil | SW9056A | Anions by IC method - Soil | 74292 | 100 | 03/28/16 03:06 PM | IC2_160328A |
| | COMP-2 (0-1) | Soil | D2216 | Percent Moisture | 74287 | 1 | 03/28/16 10:17 AM | PMOIST_160325A |
| | COMP-2 (0-1) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 1 | 03/25/16 11:33 AM | GC15_160325A |
| | COMP-2 (0-1) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 1 | 03/25/16 01:06 PM | GC15_160325A |
| | COMP-2 (0-1) | Soil | M8015V | TPH Purgeable by GC - Soil | 74248 | 1 | 03/23/16 06:48 PM | GC4_160323A |
| | COMP-2 (0-1) | Soil | E418.1 | TRPH | 74245 | 1 | 03/23/16 02:30 PM | IR207_160323A |
| | COMP-2 (0-1) | Soil | SW8021B | Volatile Organics by GC | 74207 | 1 | 03/22/16 02:41 PM | GC4_160322A |
| 1603209-08A | COMP-3 (0-1) | Soil | SW9056A | Anions by IC method - Soil | 74292 | 1 | 03/28/16 12:30 PM | IC2_160328A |
| | COMP-3 (0-1) | Soil | D2216 | Percent Moisture | 74287 | 1 | 03/28/16 10:17 AM | PMOIST_160325A |
| | COMP-3 (0-1) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 1 | 03/25/16 11:42 AM | GC15_160325A |
| | COMP-3 (0-1) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 2 | 03/25/16 01:24 PM | GC15_160325A |
| | COMP-3 (0-1) | Soil | M8015V | TPH Purgeable by GC - Soil | 74248 | 1 | 03/23/16 07:13 PM | GC4_160323A |
| | COMP-3 (0-1) | Soil | E418.1 | TRPH | 74245 | 5 | 03/23/16 02:30 PM | IR207_160323A |
| | COMP-3 (0-1) | Soil | SW8021B | Volatile Organics by GC | 74207 | 1 | 03/22/16 03:05 PM | GC4_160322A |
| 1603209-09A | COMP-4 (0-1) | Soil | SW9056A | Anions by IC method - Soil | 74292 | 10 | 03/28/16 03:21 PM | IC2_160328A |
| | COMP-4 (0-1) | Soil | D2216 | Percent Moisture | 74287 | 1 | 03/28/16 10:17 AM | PMOIST_160325A |
| | COMP-4 (0-1) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 1 | 03/25/16 11:50 AM | GC15_160325A |
| | COMP-4 (0-1) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 2 | 03/25/16 01:33 PM | GC15_160325A |
| | COMP-4 (0-1) | Soil | M8015V | TPH Purgeable by GC - Soil | 74248 | 1 | 03/23/16 07:37 PM | GC4_160323A |
| | COMP-4 (0-1) | Soil | E418.1 | TRPH | 74245 | 5 | 03/23/16 02:30 PM | IR207_160323A |
| | COMP-4 (0-1) | Soil | SW8021B | Volatile Organics by GC | 74207 | 1 | 03/22/16 03:30 PM | GC4_160322A |
| 1603209-10A | COMP-5 (0-1) | Soil | SW9056A | Anions by IC method - Soil | 74292 | 100 | 03/28/16 03:36 PM | IC2_160328A |

Lab Order: 1603209
Client: Larson & Associates
Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|------------------------------|----------|----------|-------------------|----------------|
| 1603209-10A | COMP-5 (0-1) | Soil | D2216 | Percent Moisture | 74287 | 1 | 03/28/16 10:17 AM | PMOIST_160325A |
| | COMP-5 (0-1) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 1 | 03/25/16 11:59 AM | GC15_160325A |
| | COMP-5 (0-1) | Soil | M8015D | TPH Extractable by GC - Soil | 74269 | 10 | 03/25/16 01:42 PM | GC15_160325A |
| | COMP-5 (0-1) | Soil | M8015V | TPH Purgeable by GC - Soil | 74248 | 1 | 03/23/16 08:01 PM | GC4_160323A |
| | COMP-5 (0-1) | Soil | E418.1 | TRPH | 74245 | 5 | 03/23/16 02:30 PM | IR207_160323A |
| | COMP-5 (0-1) | Soil | SW8021B | Volatile Organics by GC | 74207 | 1 | 03/22/16 03:55 PM | GC4_160322A |

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates **Client Sample ID:** DP-1 (2-3)
Project: R360 Artesia Landfarm **Lab ID:** 1603209-01
Project No: 15-0121-01 **Collection Date:** 03/16/16 12:30 PM
Lab Order: 1603209 **Matrix:** SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---|----------|---------|---------|------|-------------------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 77.4 | 3.29 | 11.0 | | mg/Kg-dry | 1 | 03/25/16 10:21 AM |
| TPH-ORO >C28-C35 | 48.8 | 3.29 | 11.0 | | mg/Kg-dry | 1 | 03/25/16 10:21 AM |
| Surr: Isopropylbenzene | 86.5 | 0 | 47-142 | %REC | | 1 | 03/25/16 10:21 AM |
| Surr: Octacosane | 337 | 0 | 25-162 | S | %REC | 1 | 03/25/16 10:21 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.213 | 0.107 | 0.213 | | mg/Kg-dry | 1 | 03/23/16 04:24 PM |
| Surr: Tetrachlorethene | 132 | 0 | 70-134 | | %REC | 1 | 03/23/16 04:24 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | <0.00483 | 0.00290 | 0.00483 | | mg/Kg-dry | 1 | 03/22/16 12:14 PM |
| Ethylbenzene | <0.0145 | 0.00483 | 0.0145 | | mg/Kg-dry | 1 | 03/22/16 12:14 PM |
| Toluene | <0.0145 | 0.00483 | 0.0145 | | mg/Kg-dry | 1 | 03/22/16 12:14 PM |
| Xylenes, Total | <0.0145 | 0.00483 | 0.0145 | | mg/Kg-dry | 1 | 03/22/16 12:14 PM |
| Surr: Tetrachloroethene | 114 | 0 | 79-135 | | %REC | 1 | 03/22/16 12:14 PM |
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0412 | 0.0165 | 0.0412 | | mg/Kg-dry | 1 | 03/24/16 03:22 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | | 0.539 | 1.08 | | mg/Kg-dry | 5 | 03/24/16 06:13 PM |
| Barium | | 0.539 | 2.16 | | mg/Kg-dry | 5 | 03/24/16 06:13 PM |
| Cadmium | <0.323 | 0.108 | 0.323 | | mg/Kg-dry | 5 | 03/24/16 06:13 PM |
| Calcium | 8460 | 135 | 404 | | mg/Kg-dry | 50 | 03/25/16 02:19 PM |
| Chromium | 12.1 | 0.539 | 2.16 | | mg/Kg-dry | 5 | 03/24/16 06:13 PM |
| Lead | 4.71 | 0.108 | 0.323 | | mg/Kg-dry | 5 | 03/24/16 06:13 PM |
| Magnesium | 2360 | 13.5 | 40.4 | | mg/Kg-dry | 5 | 03/24/16 06:13 PM |
| Potassium | 3030 | 13.5 | 40.4 | | mg/Kg-dry | 5 | 03/24/16 06:13 PM |
| Selenium | 0.383 | 0.162 | 0.539 | J | mg/Kg-dry | 5 | 03/24/16 06:13 PM |
| Silver | <0.216 | 0.108 | 0.216 | | mg/Kg-dry | 5 | 03/24/16 06:13 PM |
| Sodium | 150 | 13.5 | 40.4 | | mg/Kg-dry | 5 | 03/24/16 06:13 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 175 | 5.47 | 10.9 | N | mg/Kg-dry | 1 | 03/23/16 02:30 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 133 | 5.55 | 5.55 | | mg/Kg-dry | 1 | 03/28/16 10:48 AM |
| Sulfate | 336 | 11.1 | 11.1 | | mg/Kg-dry | 1 | 03/28/16 10:48 AM |
| SOLUBLE ALKALINITY OF SOIL | | | | | | | |
| Alkalinity, Bicarbonate (As CaCO ₃) | | 54.7 | 54.7 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:16 AM |
| Alkalinity, Carbonate (As CaCO ₃) | <54.7 | 54.7 | 54.7 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:16 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1603209

Client Sample ID: DP-1 (2-3)
Lab ID: 1603209-01
Collection Date: 03/16/16 12:30 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------|------|------|-------------------|----|-----------------------------------|
| SOLUBLE ALKALINITY OF SOIL | | | | | | | |
| Alkalinity, Hydroxide (As CaCO ₃) | <54.7 | 54.7 | 54.7 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:16 AM |
| Alkalinity, Total (As CaCO ₃) | 209 | 54.7 | 54.7 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:16 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 11.7 | D2216 | 0 | 0 | WT% | 1 | Analyst: CVD 03/28/16 10:17 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1603209

Client Sample ID: DP-2 (2-3)

Lab ID: 1603209-02

Collection Date: 03/16/16 01:00 PM

Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|----------------|---------|------|-------------------|--------------|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | M8015D | | | | Analyst: AV | |
| TPH-DRO C10-C28 | <11.8 | 3.53 | 11.8 | | mg/Kg-dry | 1 | 03/25/16 12:57 PM |
| TPH-ORO >C28-C35 | 4.49 | 3.53 | 11.8 | J | mg/Kg-dry | 1 | 03/25/16 12:57 PM |
| Surr: Isopropylbenzene | 85.4 | 0 | 47-142 | %REC | | 1 | 03/25/16 12:57 PM |
| Surr: Octacosane | 95.2 | 0 | 25-162 | %REC | | 1 | 03/25/16 12:57 PM |
| TPH PURGEABLE BY GC - SOIL | | M8015V | | | | Analyst: AV | |
| Gasoline Range Organics | <0.237 | 0.119 | 0.237 | | mg/Kg-dry | 1 | 03/23/16 04:48 PM |
| Surr: Tetrachlorethene | 124 | 0 | 70-134 | %REC | | 1 | 03/23/16 04:48 PM |
| VOLATILE ORGANICS BY GC | | SW8021B | | | | Analyst: AV | |
| Benzene | <0.00551 | 0.00330 | 0.00551 | | mg/Kg-dry | 1 | 03/22/16 12:38 PM |
| Ethylbenzene | <0.0165 | 0.00551 | 0.0165 | | mg/Kg-dry | 1 | 03/22/16 12:38 PM |
| Toluene | <0.0165 | 0.00551 | 0.0165 | | mg/Kg-dry | 1 | 03/22/16 12:38 PM |
| Xylenes, Total | <0.0165 | 0.00551 | 0.0165 | | mg/Kg-dry | 1 | 03/22/16 12:38 PM |
| Surr: Tetrachloroethene | 111 | 0 | 79-135 | %REC | | 1 | 03/22/16 12:38 PM |
| TOTAL MERCURY: SOIL/SOLID | | SW7471B | | | | Analyst: AH | |
| Mercury | <0.0490 | 0.0196 | 0.0490 | | mg/Kg-dry | 1 | 03/24/16 03:24 PM |
| TRACE METALS: ICP-MS - SOLID | | SW6020A | | | | Analyst: RO | |
| Arsenic | 1.35 | 0.582 | 1.16 | | mg/Kg-dry | 5 | 03/24/16 06:29 PM |
| Barium | 70.5 | 0.582 | 2.33 | | mg/Kg-dry | 5 | 03/24/16 06:29 PM |
| Cadmium | <0.349 | 0.116 | 0.349 | | mg/Kg-dry | 5 | 03/24/16 06:29 PM |
| Calcium | 33300 | 145 | 436 | | mg/Kg-dry | 50 | 03/25/16 02:21 PM |
| Chromium | 3.32 | 0.582 | 2.33 | | mg/Kg-dry | 5 | 03/24/16 06:29 PM |
| Lead | 1.37 | 0.116 | 0.349 | | mg/Kg-dry | 5 | 03/24/16 06:29 PM |
| Magnesium | 857 | 14.5 | 43.6 | | mg/Kg-dry | 5 | 03/24/16 06:29 PM |
| Potassium | 770 | 14.5 | 43.6 | | mg/Kg-dry | 5 | 03/24/16 06:29 PM |
| Selenium | <0.582 | 0.174 | 0.582 | | mg/Kg-dry | 5 | 03/24/16 06:29 PM |
| Silver | <0.233 | 0.116 | 0.233 | | mg/Kg-dry | 5 | 03/24/16 06:29 PM |
| Sodium | 46.9 | 14.5 | 43.6 | | mg/Kg-dry | 5 | 03/24/16 06:29 PM |
| TRPH | | E418.1 | | | | Analyst: DEW | |
| Petroleum Hydrocarbons, TR | <12.2 | 6.10 | 12.2 | N | mg/Kg-dry | 1 | 03/23/16 02:30 PM |
| ANIONS BY IC METHOD - SOIL | | SW9056A | | | | Analyst: AV | |
| Chloride | 14.4 | 5.74 | 5.74 | | mg/Kg-dry | 1 | 03/28/16 11:02 AM |
| Sulfate | 425 | 11.5 | 11.5 | | mg/Kg-dry | 1 | 03/28/16 11:02 AM |
| SOLUBLE ALKALINITY OF SOIL | | M2320 B | | | | Analyst: BJT | |
| Alkalinity, Bicarbonate (As CaCO3) | | 60.8 | 60.8 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:26 AM |
| Alkalinity, Carbonate (As CaCO3) | <60.8 | 60.8 | 60.8 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:26 AM |

| | |
|--------------------|--|
| Qualifiers: | <ul style="list-style-type: none"> * Value exceeds TCLP Maximum Concentration Level C Sample Result or QC discussed in the Case Narrative E TPH pattern not Gas or Diesel Range Pattern |
| MDL | Method Detection Limit |
| RL | Reporting Limit |
| N | Parameter not NELAC certified |

- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1603209

Client Sample ID: DP-2 (2-3)
Lab ID: 1603209-02
Collection Date: 03/16/16 01:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------|------|------|-------------------|----|-----------------------------------|
| SOLUBLE ALKALINITY OF SOIL | | | | | | | |
| Alkalinity, Hydroxide (As CaCO ₃) | <60.8 | 60.8 | 60.8 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:26 AM |
| Alkalinity, Total (As CaCO ₃) | 1590 | 60.8 | 60.8 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:26 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 19.6 | D2216 | 0 | 0 | WT% | 1 | Analyst: CVD 03/28/16 10:17 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1603209

Client Sample ID: DP-3 (2-3)
Lab ID: 1603209-03
Collection Date: 03/16/16 01:15 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---|----------|---------|---------|------|-------------------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 15.1 | 3.06 | 10.2 | | mg/Kg-dry | 1 | 03/25/16 10:57 AM |
| TPH-ORO >C28-C35 | 11.4 | 3.06 | 10.2 | | mg/Kg-dry | 1 | 03/25/16 10:57 AM |
| Sur: Isopropylbenzene | 80.8 | 0 | 47-142 | %REC | | 1 | 03/25/16 10:57 AM |
| Sur: Octacosane | 103 | 0 | 25-162 | %REC | | 1 | 03/25/16 10:57 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.189 | 0.0947 | 0.189 | | mg/Kg-dry | 1 | 03/23/16 05:12 PM |
| Sur: Tetrachlorethene | 129 | 0 | 70-134 | %REC | | 1 | 03/23/16 05:12 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| SW8021B | | | | | | | |
| Benzene | <0.00479 | 0.00287 | 0.00479 | | mg/Kg-dry | 1 | 03/22/16 01:04 PM |
| Ethylbenzene | <0.0144 | 0.00479 | 0.0144 | | mg/Kg-dry | 1 | 03/22/16 01:04 PM |
| Toluene | <0.0144 | 0.00479 | 0.0144 | | mg/Kg-dry | 1 | 03/22/16 01:04 PM |
| Xylenes, Total | <0.0144 | 0.00479 | 0.0144 | | mg/Kg-dry | 1 | 03/22/16 01:04 PM |
| Sur: Tetrachloroethene | 106 | 0 | 79-135 | %REC | | 1 | 03/22/16 01:04 PM |
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0401 | 0.0160 | 0.0401 | | mg/Kg-dry | 1 | 03/24/16 03:26 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| SW6020A | | | | | | | |
| Arsenic | | 0.469 | 0.937 | J | mg/Kg-dry | 5 | 03/24/16 06:31 PM |
| Barium | | 0.469 | 1.87 | | mg/Kg-dry | 5 | 03/24/16 06:31 PM |
| Cadmium | <0.281 | 0.0937 | 0.281 | | mg/Kg-dry | 5 | 03/24/16 06:31 PM |
| Calcium | 4630 | 11.7 | 35.1 | | mg/Kg-dry | 5 | 03/24/16 06:31 PM |
| Chromium | 2.60 | 0.469 | 1.87 | | mg/Kg-dry | 5 | 03/24/16 06:31 PM |
| Lead | 1.13 | 0.0937 | 0.281 | | mg/Kg-dry | 5 | 03/24/16 06:31 PM |
| Magnesium | 508 | 11.7 | 35.1 | | mg/Kg-dry | 5 | 03/24/16 06:31 PM |
| Potassium | 535 | 11.7 | 35.1 | | mg/Kg-dry | 5 | 03/24/16 06:31 PM |
| Selenium | <0.469 | 0.141 | 0.469 | | mg/Kg-dry | 5 | 03/24/16 06:31 PM |
| Silver | <0.187 | 0.0937 | 0.187 | | mg/Kg-dry | 5 | 03/24/16 06:31 PM |
| Sodium | 58.0 | 11.7 | 35.1 | | mg/Kg-dry | 5 | 03/24/16 06:31 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 9.52 | 4.92 | 9.85 | JN | mg/Kg-dry | 1 | 03/23/16 02:30 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| SW9056A | | | | | | | |
| Chloride | | 5.01 | 5.01 | | mg/Kg-dry | 1 | 03/28/16 11:17 AM |
| Sulfate | 890 | 100 | 100 | | mg/Kg-dry | 10 | 03/28/16 02:08 PM |
| SOLUBLE ALKALINITY OF SOIL | | | | | | | |
| M2320 B | | | | | | | |
| Alkalinity, Bicarbonate (As CaCO ₃) | | 50.9 | 50.9 | | mg/L @ pH 4.5-dry | 1 | 03/23/16 10:29 AM |
| Alkalinity, Carbonate (As CaCO ₃) | <50.9 | 50.9 | 50.9 | | mg/L @ pH 4.5-dry | 1 | 03/23/16 10:29 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1603209

Client Sample ID: DP-3 (2-3)
Lab ID: 1603209-03
Collection Date: 03/16/16 01:15 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|------|------|------|-------------------|----|-------------------|
| SOLUBLE ALKALINITY OF SOIL | | | | | | | |
| Alkalinity, Hydroxide (As CaCO ₃) | <50.9 | 50.9 | 50.9 | | mg/L @ pH 4.5-dry | 1 | 03/23/16 10:29 AM |
| Alkalinity, Total (As CaCO ₃) | 182 | 50.9 | 50.9 | | mg/L @ pH 4.5-dry | 1 | 03/23/16 10:29 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 3.85 | 0 | 0 | | WT% | 1 | 03/28/16 10:17 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates **Client Sample ID:** DP-4 (2-3)
Project: R360 Artesia Landfarm **Lab ID:** 1603209-04
Project No: 15-0121-01 **Collection Date:** 03/16/16 01:30 PM
Lab Order: 1603209 **Matrix:** SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---|----------|---------|---------|------|-------------------|-----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 98.7 | 3.14 | 10.5 | | mg/Kg-dry | 1 | 03/25/16 11:06 AM |
| TPH-ORO >C28-C35 | 82.3 | 3.14 | 10.5 | | mg/Kg-dry | 1 | 03/25/16 11:06 AM |
| Sur: Isopropylbenzene | 81.7 | 0 | 47-142 | %REC | | 1 | 03/25/16 11:06 AM |
| Sur: Octacosane | 159 | 0 | 25-162 | %REC | | 1 | 03/25/16 11:06 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.205 | 0.103 | 0.205 | | mg/Kg-dry | 1 | 03/23/16 05:36 PM |
| Sur: Tetrachlorethene | 121 | 0 | 70-134 | %REC | | 1 | 03/23/16 05:36 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | <0.00540 | 0.00324 | 0.00540 | | mg/Kg-dry | 1 | 03/22/16 01:28 PM |
| Ethylbenzene | <0.0162 | 0.00540 | 0.0162 | | mg/Kg-dry | 1 | 03/22/16 01:28 PM |
| Toluene | <0.0162 | 0.00540 | 0.0162 | | mg/Kg-dry | 1 | 03/22/16 01:28 PM |
| Xylenes, Total | <0.0162 | 0.00540 | 0.0162 | | mg/Kg-dry | 1 | 03/22/16 01:28 PM |
| Sur: Tetrachloroethene | 109 | 0 | 79-135 | %REC | | 1 | 03/22/16 01:28 PM |
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | 0.0688 | 0.0166 | 0.0415 | | mg/Kg-dry | 1 | 03/24/16 03:29 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 4.04 | 0.534 | 1.07 | | mg/Kg-dry | 5 | 03/24/16 06:33 PM |
| Barium | 149 | 0.534 | 2.13 | | mg/Kg-dry | 5 | 03/24/16 06:33 PM |
| Cadmium | 0.264 | 0.107 | 0.320 | J | mg/Kg-dry | 5 | 03/24/16 06:33 PM |
| Calcium | 56200 | 267 | 801 | | mg/Kg-dry | 100 | 03/25/16 02:23 PM |
| Chromium | 16.3 | 0.534 | 2.13 | | mg/Kg-dry | 5 | 03/24/16 06:33 PM |
| Lead | 48.5 | 0.107 | 0.320 | | mg/Kg-dry | 5 | 03/24/16 06:33 PM |
| Magnesium | 9890 | 13.3 | 40.0 | | mg/Kg-dry | 5 | 03/24/16 06:33 PM |
| Potassium | 2980 | 13.3 | 40.0 | | mg/Kg-dry | 5 | 03/24/16 06:33 PM |
| Selenium | 0.966 | 0.160 | 0.534 | | mg/Kg-dry | 5 | 03/24/16 06:33 PM |
| Silver | <0.213 | 0.107 | 0.213 | | mg/Kg-dry | 5 | 03/24/16 06:33 PM |
| Sodium | 394 | 13.3 | 40.0 | | mg/Kg-dry | 5 | 03/24/16 06:33 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 228 | 5.35 | 10.7 | N | mg/Kg-dry | 1 | 03/23/16 02:30 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 255 | 5.31 | 5.31 | | mg/Kg-dry | 1 | 03/28/16 11:32 AM |
| Sulfate | 9110 | 1060 | 1060 | | mg/Kg-dry | 100 | 03/28/16 02:22 PM |
| SOLUBLE ALKALINITY OF SOIL | | | | | | | |
| Alkalinity, Bicarbonate (As CaCO ₃) | 140 | 52.9 | 52.9 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:32 AM |
| Alkalinity, Carbonate (As CaCO ₃) | <52.9 | 52.9 | 52.9 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:32 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1603209

Client Sample ID: DP-4 (2-3)
Lab ID: 1603209-04
Collection Date: 03/16/16 01:30 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------|------|------|-------------------|----|-----------------------------------|
| SOLUBLE ALKALINITY OF SOIL | | | | | | | |
| Alkalinity, Hydroxide (As CaCO ₃) | <52.9 | 52.9 | 52.9 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:32 AM |
| Alkalinity, Total (As CaCO ₃) | 140 | 52.9 | 52.9 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:32 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 9.04 | D2216 | 0 | 0 | WT% | 1 | Analyst: CVD 03/28/16 10:17 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates **Client Sample ID:** DP-5 (2-3)
Project: R360 Artesia Landfarm **Lab ID:** 1603209-05
Project No: 15-0121-01 **Collection Date:** 03/16/16 01:45 PM
Lab Order: 1603209 **Matrix:** SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---|----------|---------|---------|------|-------------------|-----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 203 | 3.29 | 11.0 | | mg/Kg-dry | 1 | 03/25/16 11:15 AM |
| TPH-ORO >C28-C35 | 107 | 3.29 | 11.0 | | mg/Kg-dry | 1 | 03/25/16 11:15 AM |
| Sur: Isopropylbenzene | 90.2 | 0 | 47-142 | S | %REC | 1 | 03/25/16 11:15 AM |
| Sur: Octacosane | 188 | 0 | 25-162 | S | %REC | 1 | 03/25/16 11:15 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.223 | 0.112 | 0.223 | | mg/Kg-dry | 1 | 03/23/16 06:00 PM |
| Sur: Tetrachlorethene | 128 | 0 | 70-134 | | %REC | 1 | 03/23/16 06:00 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | <0.00519 | 0.00311 | 0.00519 | | mg/Kg-dry | 1 | 03/22/16 01:52 PM |
| Ethylbenzene | <0.0156 | 0.00519 | 0.0156 | | mg/Kg-dry | 1 | 03/22/16 01:52 PM |
| Toluene | <0.0156 | 0.00519 | 0.0156 | | mg/Kg-dry | 1 | 03/22/16 01:52 PM |
| Xylenes, Total | <0.0156 | 0.00519 | 0.0156 | | mg/Kg-dry | 1 | 03/22/16 01:52 PM |
| Sur: Tetrachloroethene | 97.4 | 0 | 79-135 | | %REC | 1 | 03/22/16 01:52 PM |
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | 0.0173 | 0.0157 | 0.0391 | J | mg/Kg-dry | 1 | 03/24/16 03:36 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | | 0.506 | 1.01 | | mg/Kg-dry | 5 | 03/24/16 06:35 PM |
| Barium | | 0.506 | 2.03 | | mg/Kg-dry | 5 | 03/24/16 06:35 PM |
| Cadmium | <0.304 | 0.101 | 0.304 | | mg/Kg-dry | 5 | 03/24/16 06:35 PM |
| Calcium | 31200 | 127 | 380 | | mg/Kg-dry | 50 | 03/25/16 02:25 PM |
| Chromium | 8.92 | 0.506 | 2.03 | | mg/Kg-dry | 5 | 03/24/16 06:35 PM |
| Lead | 5.75 | 0.101 | 0.304 | | mg/Kg-dry | 5 | 03/24/16 06:35 PM |
| Magnesium | 2610 | 12.7 | 38.0 | | mg/Kg-dry | 5 | 03/24/16 06:35 PM |
| Potassium | 1810 | 12.7 | 38.0 | | mg/Kg-dry | 5 | 03/24/16 06:35 PM |
| Selenium | 0.267 | 0.152 | 0.506 | J | mg/Kg-dry | 5 | 03/24/16 06:35 PM |
| Silver | <0.203 | 0.101 | 0.203 | | mg/Kg-dry | 5 | 03/24/16 06:35 PM |
| Sodium | 1130 | 12.7 | 38.0 | | mg/Kg-dry | 5 | 03/24/16 06:35 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 287 | 5.45 | 10.9 | N | mg/Kg-dry | 1 | 03/23/16 02:30 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 3120 | 529 | 529 | | mg/Kg-dry | 100 | 03/28/16 02:37 PM |
| Sulfate | 2550 | 1060 | 1060 | | mg/Kg-dry | 100 | 03/28/16 02:37 PM |
| SOLUBLE ALKALINITY OF SOIL | | | | | | | |
| Alkalinity, Bicarbonate (As CaCO ₃) | | 55.5 | 55.5 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:36 AM |
| Alkalinity, Carbonate (As CaCO ₃) | <55.5 | 55.5 | 55.5 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:36 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1603209

Client Sample ID: DP-5 (2-3)
Lab ID: 1603209-05
Collection Date: 03/16/16 01:45 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------|------|------|-------------------|----|-----------------------------------|
| SOLUBLE ALKALINITY OF SOIL | | | | | | | |
| Alkalinity, Hydroxide (As CaCO ₃) | <55.5 | 55.5 | 55.5 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:36 AM |
| Alkalinity, Total (As CaCO ₃) | 183 | 55.5 | 55.5 | | mg/L @ pH 4.52-dr | 1 | 03/23/16 10:36 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 13.4 | D2216 | 0 | 0 | WT% | 1 | Analyst: CVD 03/28/16 10:17 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates **Client Sample ID:** COMP-1 (0-1)
Project: R360 Artesia Landfarm **Lab ID:** 1603209-06
Project No: 15-0121-01 **Collection Date:** 03/16/16 12:35 PM
Lab Order: 1603209 **Matrix:** SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 366 | 5.95 | 19.8 | | mg/Kg-dry | 2 | 03/25/16 01:15 PM |
| TPH-ORO >C28-C35 | 263 | 5.95 | 19.8 | | mg/Kg-dry | 2 | 03/25/16 01:15 PM |
| Sur: Isopropylbenzene | 87.2 | 0 | 47-142 | S | %REC | 2 | 03/25/16 01:15 PM |
| Sur: Octacosane | 302 | 0 | 25-162 | S | %REC | 2 | 03/25/16 01:15 PM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.190 | 0.0951 | 0.190 | | mg/Kg-dry | 1 | 03/23/16 06:24 PM |
| Sur: Tetrachlorethene | 125 | 0 | 70-134 | | %REC | 1 | 03/23/16 06:24 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | <0.00472 | 0.00283 | 0.00472 | | mg/Kg-dry | 1 | 03/22/16 02:17 PM |
| Ethylbenzene | <0.0142 | 0.00472 | 0.0142 | | mg/Kg-dry | 1 | 03/22/16 02:17 PM |
| Toluene | <0.0142 | 0.00472 | 0.0142 | | mg/Kg-dry | 1 | 03/22/16 02:17 PM |
| Xylenes, Total | <0.0142 | 0.00472 | 0.0142 | | mg/Kg-dry | 1 | 03/22/16 02:17 PM |
| Sur: Tetrachloroethene | 93.3 | 0 | 79-135 | | %REC | 1 | 03/22/16 02:17 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 836 | 24.8 | 49.7 | N | mg/Kg-dry | 5 | 03/23/16 02:30 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 356 | 49.3 | 49.3 | | mg/Kg-dry | 10 | 03/28/16 02:52 PM |
| Sulfate | 2790 | 98.6 | 98.6 | | mg/Kg-dry | 10 | 03/28/16 02:52 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 1.38 | 0 | 0 | | WT% | 1 | 03/28/16 10:17 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates **Client Sample ID:** COMP-2 (0-1)
Project: R360 Artesia Landfarm **Lab ID:** 1603209-07
Project No: 15-0121-01 **Collection Date:** 03/16/16 01:00 PM
Lab Order: 1603209 **Matrix:** SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|-----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 68.9 | 3.39 | 11.3 | | mg/Kg-dry | 1 | 03/25/16 01:06 PM |
| TPH-ORO >C28-C35 | 49.1 | 3.39 | 11.3 | | mg/Kg-dry | 1 | 03/25/16 01:06 PM |
| Surr: Isopropylbenzene | 82.8 | 0 | 47-142 | %REC | | 1 | 03/25/16 01:06 PM |
| Surr: Octacosane | 134 | 0 | 25-162 | %REC | | 1 | 03/25/16 01:06 PM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.226 | 0.113 | 0.226 | | mg/Kg-dry | 1 | 03/23/16 06:48 PM |
| Sur: Tetrachlorethene | 130 | 0 | 70-134 | %REC | | 1 | 03/23/16 06:48 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | <0.00553 | 0.00332 | 0.00553 | | mg/Kg-dry | 1 | 03/22/16 02:41 PM |
| Ethylbenzene | <0.0166 | 0.00553 | 0.0166 | | mg/Kg-dry | 1 | 03/22/16 02:41 PM |
| Toluene | <0.0166 | 0.00553 | 0.0166 | | mg/Kg-dry | 1 | 03/22/16 02:41 PM |
| Xylenes, Total | <0.0166 | 0.00553 | 0.0166 | | mg/Kg-dry | 1 | 03/22/16 02:41 PM |
| Surr: Tetrachloroethene | 97.7 | 0 | 79-135 | %REC | | 1 | 03/22/16 02:41 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 35.6 | 5.56 | 11.1 | N | mg/Kg-dry | 1 | 03/23/16 02:30 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 1580 | 567 | 567 | | mg/Kg-dry | 100 | 03/28/16 03:06 PM |
| Sulfate | 7810 | 1130 | 1130 | | mg/Kg-dry | 100 | 03/28/16 03:06 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 14.0 | 0 | 0 | | WT% | 1 | 03/28/16 10:17 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates **Client Sample ID:** COMP-3 (0-1)
Project: R360 Artesia Landfarm **Lab ID:** 1603209-08
Project No: 15-0121-01 **Collection Date:** 03/16/16 01:15 PM
Lab Order: 1603209 **Matrix:** SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 273 | 5.84 | 19.5 | | mg/Kg-dry | 2 | 03/25/16 01:24 PM |
| TPH-ORO >C28-C35 | 235 | 5.84 | 19.5 | | mg/Kg-dry | 2 | 03/25/16 01:24 PM |
| Sur: Isopropylbenzene | 86.3 | 0 | 47-142 | %REC | | 2 | 03/25/16 01:24 PM |
| Sur: Octacosane | 279 | 0 | 25-162 | S | %REC | 2 | 03/25/16 01:24 PM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.192 | 0.0959 | 0.192 | | mg/Kg-dry | 1 | 03/23/16 07:13 PM |
| Sur: Tetrachloroethene | 120 | 0 | 70-134 | | %REC | 1 | 03/23/16 07:13 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | <0.00454 | 0.00272 | 0.00454 | | mg/Kg-dry | 1 | 03/22/16 03:05 PM |
| Ethylbenzene | <0.0136 | 0.00454 | 0.0136 | | mg/Kg-dry | 1 | 03/22/16 03:05 PM |
| Toluene | <0.0136 | 0.00454 | 0.0136 | | mg/Kg-dry | 1 | 03/22/16 03:05 PM |
| Xylenes, Total | <0.0136 | 0.00454 | 0.0136 | | mg/Kg-dry | 1 | 03/22/16 03:05 PM |
| Sur: Tetrachloroethene | 95.8 | 0 | 79-135 | | %REC | 1 | 03/22/16 03:05 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 644 | 24.9 | 49.8 | N | mg/Kg-dry | 5 | 03/23/16 02:30 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 177 | 4.98 | 4.98 | | mg/Kg-dry | 1 | 03/28/16 12:30 PM |
| Sulfate | 403 | 9.95 | 9.95 | | mg/Kg-dry | 1 | 03/28/16 12:30 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 0.924 | 0 | 0 | | WT% | 1 | 03/28/16 10:17 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1603209

Client Sample ID: COMP-4 (0-1)
Lab ID: 1603209-09
Collection Date: 03/16/16 01:30 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|----|------------------------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 299 | 5.72 | 19.1 | | mg/Kg-dry | 2 | 03/25/16 01:33 PM |
| TPH-ORO >C28-C35 | 228 | 5.72 | 19.1 | | mg/Kg-dry | 2 | 03/25/16 01:33 PM |
| Surf: Isopropylbenzene | 87.2 | 0 | 47-142 | %REC | | 2 | 03/25/16 01:33 PM |
| Surf: Octacosane | 301 | 0 | 25-162 | s | %REC | 2 | 03/25/16 01:33 PM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.200 | 0.100 | 0.200 | | mg/Kg-dry | 1 | 03/23/16 07:37 PM |
| Surf: Tetrachlorethene | 124 | 0 | 70-134 | | %REC | 1 | 03/23/16 07:37 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| SW8021B | | | | | | | |
| Benzene | <0.00451 | 0.00271 | 0.00451 | | mg/Kg-dry | 1 | 03/22/16 03:30 PM |
| Ethylbenzene | <0.0135 | 0.00451 | 0.0135 | | mg/Kg-dry | 1 | 03/22/16 03:30 PM |
| Toluene | <0.0135 | 0.00451 | 0.0135 | | mg/Kg-dry | 1 | 03/22/16 03:30 PM |
| Xylenes, Total | <0.0135 | 0.00451 | 0.0135 | | mg/Kg-dry | 1 | 03/22/16 03:30 PM |
| Surf: Tetrachloroethene | 88.5 | 0 | 79-135 | | %REC | 1 | 03/22/16 03:30 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 704 | 24.0 | 47.9 | N | mg/Kg-dry | 5 | Analyst: DEW/ 03/23/16 02:30 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 467 | 50.2 | 50.2 | | mg/Kg-dry | 10 | 03/28/16 03:21 PM |
| Sulfate | 1460 | 100 | 100 | | mg/Kg-dry | 10 | 03/28/16 03:21 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 1.35 | 0 | 0 | | WT% | 1 | Analyst: C/D 03/28/16 10:17 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 29-Mar-16

CLIENT: Larson & Associates **Client Sample ID:** COMP-5 (0-1)
Project: R360 Artesia Landfarm **Lab ID:** 1603209-10
Project No: 15-0121-01 **Collection Date:** 03/16/16 01:45 PM
Lab Order: 1603209 **Matrix:** SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|----------|---------|---------|------|-----------|-----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 737 | 30.7 | 102 | | mg/Kg-dry | 10 | 03/25/16 01:42 PM |
| TPH-ORO >C28-C35 | 669 | 30.7 | 102 | | mg/Kg-dry | 10 | 03/25/16 01:42 PM |
| Sur: Isopropylbenzene | 78.3 | 0 | 47-142 | %REC | | 10 | 03/25/16 01:42 PM |
| Sur: Octacosane | 577 | 0 | 25-162 | S | %REC | 10 | 03/25/16 01:42 PM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | <0.186 | 0.0929 | 0.186 | | mg/Kg-dry | 1 | 03/23/16 08:01 PM |
| Sur: Tetrachlorethene | 106 | 0 | 70-134 | | %REC | 1 | 03/23/16 08:01 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | <0.00493 | 0.00296 | 0.00493 | | mg/Kg-dry | 1 | 03/22/16 03:55 PM |
| Ethylbenzene | <0.0148 | 0.00493 | 0.0148 | | mg/Kg-dry | 1 | 03/22/16 03:55 PM |
| Toluene | <0.0148 | 0.00493 | 0.0148 | | mg/Kg-dry | 1 | 03/22/16 03:55 PM |
| Xylenes, Total | <0.0148 | 0.00493 | 0.0148 | | mg/Kg-dry | 1 | 03/22/16 03:55 PM |
| Sur: Tetrachloroethene | 84.6 | 0 | 79-135 | | %REC | 1 | 03/22/16 03:55 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 2080 | 25.1 | 50.2 | N | mg/Kg-dry | 5 | 03/23/16 02:30 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 2100 | 512 | 512 | | mg/Kg-dry | 100 | 03/28/16 03:36 PM |
| Sulfate | 7890 | 1020 | 1020 | | mg/Kg-dry | 100 | 03/28/16 03:36 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 3.37 | 0 | 0 | | WT% | 1 | 03/28/16 10:17 AM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT**RunID: GC15_160325A**

The QC data in batch 74269 applies to the following samples: 1603209-01B, 1603209-02B, 1603209-03B, 1603209-04B, 1603209-05B, 1603209-06A, 1603209-07A, 1603209-08A, 1603209-09A, 1603209-10A

| Sample ID | LCS-74269 | Batch ID: | 74269 | TestNo: | M8015D | Units: | mg/Kg | | | | |
|------------------------|---|-----------|--------------|----------------|-----------------------|------------|-----------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | GC15_160325A | Analysis Date: | 3/25/2016 10:03:18 AM | Prep Date: | 3/24/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 102 | 10.0 | 125.0 | 0 | 81.9 | 50 | 114 | | | |
| Surr: Isopropylbenzene | | 6.50 | | 7.500 | | 86.7 | 47 | 142 | | | |
| Surr: Octacosane | | 6.91 | | 7.500 | | 92.1 | 25 | 162 | | | |
| Sample ID | MB-74269 | Batch ID: | 74269 | TestNo: | M8015D | Units: | mg/Kg | | | | |
| SampType: | MBLK <th>Run ID:</th> <td>GC15_160325A</td> <th>Analysis Date:</th> <td>3/25/2016 10:12:17 AM</td> <th>Prep Date:</th> <td>3/24/2016</td> | Run ID: | GC15_160325A | Analysis Date: | 3/25/2016 10:12:17 AM | Prep Date: | 3/24/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | <10.0 | 10.0 | | | | | | | | |
| TPH-ORO >C28-C35 | | <10.0 | 10.0 | | | | | | | | |
| Surr: Isopropylbenzene | | 6.27 | | 7.500 | | 83.5 | 47 | 142 | | | |
| Surr: Octacosane | | 6.73 | | 7.500 | | 89.7 | 25 | 162 | | | |
| Sample ID | 1603209-01BMS | Batch ID: | 74269 | TestNo: | M8015D | Units: | mg/Kg-dry | | | | |
| SampType: | MS | Run ID: | GC15_160325A | Analysis Date: | 3/25/2016 10:30:15 AM | Prep Date: | 3/24/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 191 | 10.5 | 130.7 | 77.40 | 87.1 | 50 | 114 | | | |
| Surr: Isopropylbenzene | | 6.46 | | 7.840 | | 82.4 | 47 | 142 | | | |
| Surr: Octacosane | | 11.5 | | 7.840 | | 146 | 25 | 162 | | | |
| Sample ID | 1603209-01BMSD | Batch ID: | 74269 | TestNo: | M8015D | Units: | mg/Kg-dry | | | | |
| SampType: | MSD | Run ID: | GC15_160325A | Analysis Date: | 3/25/2016 10:39:14 AM | Prep Date: | 3/24/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 245 | 10.5 | 131.5 | 77.40 | 127 | 50 | 114 | 24.5 | 30 | S |
| Surr: Isopropylbenzene | | 6.81 | | 7.891 | | 86.3 | 47 | 142 | 0 | 0 | |
| Surr: Octacosane | | 14.8 | | 7.891 | | 187 | 25 | 162 | 0 | 0 | S |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_160325A

| Sample ID | ICV-160325 | Batch ID: | R84878 | TestNo: | M8015D | Units: | mg/Kg | | | | |
|------------------------|------------|-----------|--------------|-------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GC15_160325A | Analysis Date: 3/25/2016 9:53:11 AM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 589 | 10.0 | 500.0 | 0 | 118 | 80 | 120 | | | |
| TPH-ORO >C28-C35 | | 0.646 | 10.0 | 0 | | | | | | | |
| Surr: Isopropylbenzene | | 28.2 | | 25.00 | | 113 | 80 | 120 | | | |
| Surr: Octacosane | | 28.2 | | 25.00 | | 113 | 80 | 120 | | | |

| Sample ID | CCV1-160325 | Batch ID: | R84878 | TestNo: | M8015D | Units: | mg/Kg | | | | |
|------------------------|-------------|-----------|--------------|--------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | GC15_160325A | Analysis Date: 3/25/2016 12:48:35 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 223 | 10.0 | 250.0 | 0 | 89.1 | 80 | 120 | | | |
| TPH-ORO >C28-C35 | | 5.56 | 10.0 | 0 | | | | | | | |
| Surr: Isopropylbenzene | | 13.2 | | 12.50 | | 105 | 80 | 120 | | | |
| Surr: Octacosane | | 12.0 | | 12.50 | | 95.9 | 80 | 120 | | | |

| Sample ID | CCV2-160325 | Batch ID: | R84878 | TestNo: | M8015D | Units: | mg/Kg | | | | |
|------------------------|-------------|-----------|--------------|-------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | GC15_160325A | Analysis Date: 3/25/2016 2:00:50 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 218 | 10.0 | 250.0 | 0 | 87.4 | 80 | 120 | | | |
| TPH-ORO >C28-C35 | | 1.34 | 10.0 | 0 | | | | | | | |
| Surr: Isopropylbenzene | | 12.8 | | 12.50 | | 103 | 80 | 120 | | | |
| Surr: Octacosane | | 12.0 | | 12.50 | | 95.7 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_160322A

The QC data in batch 74207 applies to the following samples: 1603209-01A, 1603209-02A, 1603209-03A, 1603209-04A, 1603209-05A, 1603209-06A, 1603209-07A, 1603209-08A, 1603209-09A, 1603209-10A

| Sample ID | LCS-74207 | Batch ID: | 74207 | TestNo: | SW8021B | Units: | mg/Kg |
|------------------------------|----------------|-----------|-------------|----------------|-----------------------|------------|-----------|
| SampType: | LCS | Run ID: | GC4_160322A | Analysis Date: | 3/22/2016 10:40:08 AM | Prep Date: | 3/22/2016 |
| <hr/> | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit |
| Benzene | 0.0997 | 0.00500 | 0.1000 | 0 | 99.7 | 65 | 113 |
| Toluene | 0.102 | 0.0150 | 0.1000 | 0 | 102 | 73 | 115 |
| Ethylbenzene | 0.102 | 0.0150 | 0.1000 | 0 | 102 | 74 | 118 |
| Xylenes, Total | 0.315 | 0.0150 | 0.3000 | 0 | 105 | 73 | 119 |
| Surrogate: Tetrachloroethene | 0.196 | | 0.2000 | | 97.8 | 79 | 135 |
| <hr/> | | | | | | | |
| Sample ID | MB-74207 | Batch ID: | 74207 | TestNo: | SW8021B | Units: | mg/Kg |
| SampType: | MBLK | Run ID: | GC4_160322A | Analysis Date: | 3/22/2016 11:30:33 AM | Prep Date: | 3/22/2016 |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit |
| Benzene | <0.00500 | 0.00500 | | | | | |
| Toluene | <0.0150 | 0.0150 | | | | | |
| Ethylbenzene | <0.0150 | 0.0150 | | | | | |
| Xylenes, Total | <0.0150 | 0.0150 | | | | | |
| Surrogate: Tetrachloroethene | 0.213 | | 0.2000 | | 107 | 79 | 135 |
| <hr/> | | | | | | | |
| Sample ID | 1603209-10AMS | Batch ID: | 74207 | TestNo: | SW8021B | Units: | mg/Kg-dry |
| SampType: | MS | Run ID: | GC4_160322A | Analysis Date: | 3/22/2016 4:19:00 PM | Prep Date: | 3/22/2016 |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit |
| Benzene | 0.0754 | 0.00451 | 0.09014 | 0 | 83.6 | 65 | 113 |
| Toluene | 0.0730 | 0.0135 | 0.09014 | 0 | 81.0 | 73 | 115 |
| Ethylbenzene | 0.0688 | 0.0135 | 0.09014 | 0 | 76.4 | 74 | 118 |
| Xylenes, Total | 0.204 | 0.0135 | 0.2704 | 0 | 75.4 | 73 | 119 |
| Surrogate: Tetrachloroethene | 0.153 | | 0.1803 | | 84.7 | 79 | 135 |
| <hr/> | | | | | | | |
| Sample ID | 1603209-10AMSD | Batch ID: | 74207 | TestNo: | SW8021B | Units: | mg/Kg-dry |
| SampType: | MSD | Run ID: | GC4_160322A | Analysis Date: | 3/22/2016 4:43:54 PM | Prep Date: | 3/22/2016 |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit |
| Benzene | 0.0811 | 0.00469 | 0.09374 | 0 | 86.5 | 65 | 113 |
| Toluene | 0.0795 | 0.0141 | 0.09374 | 0 | 84.8 | 73 | 115 |
| Ethylbenzene | 0.0752 | 0.0141 | 0.09374 | 0 | 80.2 | 74 | 118 |
| Xylenes, Total | 0.221 | 0.0141 | 0.2812 | 0 | 78.5 | 73 | 119 |
| Surrogate: Tetrachloroethene | 0.151 | | 0.1875 | | 80.8 | 79 | 135 |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_160322A

| Sample ID | ICV-160322 | Batch ID: | R84797 | TestNo: | SW8021B | Units: | mg/Kg | | | | |
|-------------------------|------------|-----------|-------------|--------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GC4_160322A | Analysis Date: 3/22/2016 10:06:17 AM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.190 | 0.00500 | 0.2000 | 0 | 94.9 | 80 | 120 | | | |
| Toluene | | 0.191 | 0.0150 | 0.2000 | 0 | 95.6 | 80 | 120 | | | |
| Ethylbenzene | | 0.197 | 0.0150 | 0.2000 | 0 | 98.3 | 80 | 120 | | | |
| Xylenes, Total | | 0.625 | 0.0150 | 0.6000 | 0 | 104 | 80 | 120 | | | |
| Surr: Tetrachloroethene | | 0.188 | | 0.2000 | | 94.1 | 79 | 135 | | | |

| Sample ID | CCV1-160322 | Batch ID: | R84797 | TestNo: | SW8021B | Units: | mg/Kg | | | | |
|-------------------------|-------------|-----------|-------------|-------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | GC4_160322A | Analysis Date: 3/22/2016 5:13:47 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.0981 | 0.00500 | 0.1000 | 0 | 98.1 | 80 | 120 | | | |
| Toluene | | 0.0998 | 0.0150 | 0.1000 | 0 | 99.8 | 80 | 120 | | | |
| Ethylbenzene | | 0.101 | 0.0150 | 0.1000 | 0 | 101 | 80 | 120 | | | |
| Xylenes, Total | | 0.306 | 0.0150 | 0.3000 | 0 | 102 | 80 | 120 | | | |
| Surr: Tetrachloroethene | | 0.211 | | 0.2000 | | 106 | 79 | 135 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_160323A

The QC data in batch 74248 applies to the following samples: 1603209-01A, 1603209-02A, 1603209-03A, 1603209-04A, 1603209-05A, 1603209-06A, 1603209-07A, 1603209-08A, 1603209-09A, 1603209-10A

| Sample ID | LCS-74248 | Batch ID: | 74248 | TestNo: | M8015V | Units: | mg/Kg | | | | |
|-------------------------|----------------|-----------|-------------|----------------|----------------------|------------|-----------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | GC4_160323A | Analysis Date: | 3/23/2016 2:24:37 PM | Prep Date: | 3/23/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 5.17 | 0.200 | 5.000 | 0 | 103 | 68 | 126 | | | |
| Surr: Tetrachlorethene | | 0.441 | | 0.4000 | | 110 | 70 | 134 | | | |
| Sample ID | MB-74248 | Batch ID: | 74248 | TestNo: | M8015V | Units: | mg/Kg | | | | |
| SampType: | MBLK | Run ID: | GC4_160323A | Analysis Date: | 3/23/2016 3:36:22 PM | Prep Date: | 3/23/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | <0.200 | 0.200 | | | | | | | | |
| Surr: Tetrachlorethene | | 0.482 | | 0.4000 | | 121 | 70 | 134 | | | |
| Sample ID | 1603209-10AMS | Batch ID: | 74248 | TestNo: | M8015V | Units: | mg/Kg-dry | | | | |
| SampType: | MS | Run ID: | GC4_160323A | Analysis Date: | 3/23/2016 8:25:50 PM | Prep Date: | 3/23/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 3.85 | 0.195 | 4.863 | 0 | 79.3 | 68 | 126 | | | |
| Surr: Tetrachlorethene | | 0.404 | | 0.3890 | | 104 | 70 | 134 | | | |
| Sample ID | 1603209-10AMSD | Batch ID: | 74248 | TestNo: | M8015V | Units: | mg/Kg-dry | | | | |
| SampType: | MSD | Run ID: | GC4_160323A | Analysis Date: | 3/23/2016 8:49:48 PM | Prep Date: | 3/23/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 4.46 | 0.201 | 5.024 | 0 | 88.8 | 68 | 126 | 14.6 | 30 | |
| Surr: Tetrachlorethene | | 0.431 | | 0.4019 | | 107 | 70 | 134 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_160323A

| Sample ID | ICV-160323 | Batch ID: | R84851 | TestNo: | M8015V | Units: | mg/Kg | | | | |
|-------------------------|-------------|-----------|--|-------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GC4_160323A <th data-cs="2" data-kind="parent">Analysis Date: 3/23/2016 1:26:11 PM</th> <th data-kind="ghost"></th> <th data-cs="2" data-kind="parent">Prep Date:</th> <th data-kind="ghost"></th> | Analysis Date: 3/23/2016 1:26:11 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 10.1 | 0.200 | 10.00 | 0 | 101 | 80 | 120 | | | |
| Surr: Tetrachlorethane | | 0.384 | | 0.4000 | | 96.1 | 70 | 134 | | | |
| Sample ID | CCV1-160323 | Batch ID: | R84851 | TestNo: | M8015V | Units: | mg/Kg | | | | |
| SampType: | CCV | Run ID: | GC4_160323A <th data-cs="2" data-kind="parent">Analysis Date: 3/23/2016 9:13:47 PM</th> <th data-kind="ghost"></th> <th data-cs="2" data-kind="parent">Prep Date:</th> <th data-kind="ghost"></th> | Analysis Date: 3/23/2016 9:13:47 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 5.97 | 0.200 | 5.000 | 0 | 119 | 80 | 120 | | | |
| Surr: Tetrachlorethane | | 0.418 | | 0.4000 | | 104 | 70 | 134 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_160324A

The QC data in batch 74261 applies to the following samples: 1603209-01A, 1603209-02A, 1603209-03A, 1603209-04A, 1603209-05A

| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
|----------------------------------|----------------------------------|--|-----------------------------|---------|------|----------|-----------|-------|----------|------|
| Sample ID MB-74261 | Batch ID: 74261 | TestNo: SW7471B | Units: mg/Kg | | | | | | | |
| SampType: MBLK | Run ID: CETAC2_HG_160324A | Analysis Date: 3/24/2016 3:01:59 PM | Prep Date: 3/24/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.0400 | 0.0400 | | | | | | | | |
| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
| Sample ID LCS-74261 | Batch ID: 74261 | TestNo: SW7471B | Units: mg/Kg | | | | | | | |
| SampType: LCS | Run ID: CETAC2_HG_160324A | Analysis Date: 3/24/2016 3:04:15 PM | Prep Date: 3/24/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.203 | 0.0400 | 0.2000 | 0 | 102 | 85 | 115 | | | |
| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
| Sample ID LCSD-74261 | Batch ID: 74261 | TestNo: SW7471B | Units: mg/Kg | | | | | | | |
| SampType: LCSD | Run ID: CETAC2_HG_160324A | Analysis Date: 3/24/2016 3:06:31 PM | Prep Date: 3/24/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.201 | 0.0400 | 0.2000 | 0 | 101 | 85 | 115 | 0.990 | 25 | |
| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
| Sample ID 1603222-01A SD | Batch ID: 74261 | TestNo: SW7471B | Units: mg/Kg-dry | | | | | | | |
| SampType: SD | Run ID: CETAC2_HG_160324A | Analysis Date: 3/24/2016 3:40:34 PM | Prep Date: 3/24/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.184 | 0.184 | 0 | 0 | | | | 0 | 10 | |
| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
| Sample ID 1603222-01A PDS | Batch ID: 74261 | TestNo: SW7471B | Units: mg/Kg-dry | | | | | | | |
| SampType: PDS | Run ID: CETAC2_HG_160324A | Analysis Date: 3/24/2016 3:42:50 PM | Prep Date: 3/24/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.236 | 0.0369 | 0.2304 | 0 | 102 | 85 | 115 | | | |
| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
| Sample ID 1603222-01A MS | Batch ID: 74261 | TestNo: SW7471B | Units: mg/Kg-dry | | | | | | | |
| SampType: MS | Run ID: CETAC2_HG_160324A | Analysis Date: 3/24/2016 3:45:06 PM | Prep Date: 3/24/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.185 | 0.0370 | 0.1849 | 0 | 100 | 80 | 120 | | | |
| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
| Sample ID 1603222-01A MSD | Batch ID: 74261 | TestNo: SW7471B | Units: mg/Kg-dry | | | | | | | |
| SampType: MSD | Run ID: CETAC2_HG_160324A | Analysis Date: 3/24/2016 3:47:22 PM | Prep Date: 3/24/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.186 | 0.0371 | 0.1854 | 0 | 101 | 80 | 120 | 0.738 | 25 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_160324A

| Sample ID | ICV-160324 | Batch ID: | R84856 | TestNo: | SW7471B | Units: | mg/Kg | | | | |
|-----------|-------------|-----------|---|----------------|----------------------|------------|----------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | CETAC2_HG_160324A <th>Analysis Date:</th> <td>3/24/2016 2:57:25 PM</td> <th>Prep Date:</th> <td></td> | Analysis Date: | 3/24/2016 2:57:25 PM | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | | 0.00390 | 0.0400 | 0.004000 | 0 | 97.5 | 90 | 110 | | | |
| Sample ID | CCV1-160324 | Batch ID: | R84856 | TestNo: | SW7471B | Units: | mg/Kg | | | | |
| SampType: | CCV | Run ID: | CETAC2_HG_160324A <th>Analysis Date:</th> <td>3/24/2016 3:31:28 PM</td> <th>Prep Date:</th> <td></td> | Analysis Date: | 3/24/2016 3:31:28 PM | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | | 0.00206 | 0.0400 | 0.002000 | 0 | 103 | 90 | 110 | | | |
| Sample ID | CCV2-160324 | Batch ID: | R84856 | TestNo: | SW7471B | Units: | mg/Kg | | | | |
| SampType: | CCV | Run ID: | CETAC2_HG_160324A <th>Analysis Date:</th> <td>3/24/2016 4:07:58 PM</td> <th>Prep Date:</th> <td></td> | Analysis Date: | 3/24/2016 4:07:58 PM | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | | 0.00207 | 0.0400 | 0.002000 | 0 | 104 | 90 | 110 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

Page 8 of 23

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_160324H

The QC data in batch 74259 applies to the following samples: 1603209-01A, 1603209-02A, 1603209-03A, 1603209-04A, 1603209-05A

| Sample ID | MB-74259 | Batch ID: | 74259 | TestNo: | SW6020A | Units: | mg/Kg | | | | |
|-----------|----------|-----------|--|----------------|---|------------|-----------|-----------|------|----------|------|
| SampType: | MBLK | Run ID: | ICP-MS4_160324H <th>Analysis Date:</th> <td>3/24/2016 5:44:00 PM<th>Prep Date:</th><td>3/24/2016</td></td> | Analysis Date: | 3/24/2016 5:44:00 PM <th>Prep Date:</th> <td>3/24/2016</td> | Prep Date: | 3/24/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | <1.00 | 1.00 | | | | | | | | |
| Barium | | <2.00 | 2.00 | | | | | | | | |
| Cadmium | | <0.300 | 0.300 | | | | | | | | |
| Calcium | | 13.6 | 37.5 | | | | | | | | |
| Chromium | | <2.00 | 2.00 | | | | | | | | |
| Lead | | <0.300 | 0.300 | | | | | | | | |
| Magnesium | | <37.5 | 37.5 | | | | | | | | |
| Potassium | | <37.5 | 37.5 | | | | | | | | |
| Selenium | | <0.500 | 0.500 | | | | | | | | |
| Silver | | <0.200 | 0.200 | | | | | | | | |
| Sodium | | <37.5 | 37.5 | | | | | | | | |

| Sample ID | LCS-74259 | Batch ID: | 74259 | TestNo: | SW6020A | Units: | mg/Kg | | | | |
|-----------|-----------|-----------|-----------------|----------------|----------------------|------------|-----------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | ICP-MS4_160324H | Analysis Date: | 3/24/2016 5:46:00 PM | Prep Date: | 3/24/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 50.8 | 1.00 | 50.00 | 0 | 102 | 80 | 120 | | | |
| Barium | | 50.3 | 2.00 | 50.00 | 0 | 101 | 80 | 120 | | | |
| Cadmium | | 49.9 | 0.300 | 50.00 | 0 | 99.7 | 80 | 120 | | | |
| Calcium | | 1250 | 37.5 | 1250 | 0 | 100 | 80 | 120 | | | |
| Chromium | | 52.0 | 2.00 | 50.00 | 0 | 104 | 80 | 120 | | | |
| Lead | | 49.8 | 0.300 | 50.00 | 0 | 99.6 | 80 | 120 | | | |
| Magnesium | | 1290 | 37.5 | 1250 | 0 | 103 | 80 | 120 | | | |
| Potassium | | 1260 | 37.5 | 1250 | 0 | 101 | 80 | 120 | | | |
| Selenium | | 51.4 | 0.500 | 50.00 | 0 | 103 | 80 | 120 | | | |
| Silver | | 50.1 | 0.200 | 50.00 | 0 | 100 | 80 | 120 | | | |
| Sodium | | 1280 | 37.5 | 1250 | 0 | 102 | 80 | 120 | | | |

| Sample ID | LCSD-74259 | Batch ID: | 74259 | TestNo: | SW6020A | Units: | mg/Kg | | | | |
|-----------|------------|-----------|-----------------|----------------|----------------------|------------|-----------|-----------|-------|----------|------|
| SampType: | LCSD | Run ID: | ICP-MS4_160324H | Analysis Date: | 3/24/2016 5:48:00 PM | Prep Date: | 3/24/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 51.0 | 1.00 | 50.00 | 0 | 102 | 80 | 120 | 0.423 | 20 | |
| Barium | | 49.6 | 2.00 | 50.00 | 0 | 99.1 | 80 | 120 | 1.36 | 20 | |
| Cadmium | | 50.3 | 0.300 | 50.00 | 0 | 101 | 80 | 120 | 0.866 | 20 | |
| Calcium | | 1220 | 37.5 | 1250 | 0 | 97.9 | 80 | 120 | 2.16 | 20 | |
| Chromium | | 51.9 | 2.00 | 50.00 | 0 | 104 | 80 | 120 | 0.055 | 20 | |
| Lead | | 51.2 | 0.300 | 50.00 | 0 | 102 | 80 | 120 | 2.68 | 20 | |
| Magnesium | | 1290 | 37.5 | 1250 | 0 | 103 | 80 | 120 | 0.061 | 20 | |
| Potassium | | 1260 | 37.5 | 1250 | 0 | 101 | 80 | 120 | 0.310 | 20 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_160324H

| | | | | | | | | | |
|---|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|-------|----|
| Sample ID | LCSD-74259 | Batch ID: | 74259 | TestNo: | SW6020A | Units: | mg/Kg | | |
| SampType: | LCSD | Run ID: | ICP-MS4_160324H | Analysis Date: | 3/24/2016 5:48:00 PM | Prep Date: | 3/24/2016 | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | |
| Selenium | 50.6 | 0.500 | 50.00 | 0 | 101 | 80 | 120 | 1.62 | 20 |
| Silver | 49.8 | 0.200 | 50.00 | 0 | 99.7 | 80 | 120 | 0.424 | 20 |
| Sodium | 1290 | 37.5 | 1250 | 0 | 103 | 80 | 120 | 0.632 | 20 |
| Sample ID | 1603188-01A SD | Batch ID: | 74259 | TestNo: | SW6020A | Units: | mg/Kg-dry | | |
| SampType: | SD | Run ID: | ICP-MS4_160324H | Analysis Date: | 3/24/2016 5:54:00 PM | Prep Date: | 3/24/2016 | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | |
| Arsenic | 41.1 | 4.89 | 0 | 39.99 | | | | 2.67 | 10 |
| Barium | 90.0 | 9.78 | 0 | 90.13 | | | | 0.129 | 10 |
| Cadmium | 11.9 | 1.47 | 0 | 11.79 | | | | 1.28 | 10 |
| Chromium | 11.1 | 9.78 | 0 | 10.49 | | | | 5.37 | 10 |
| Lead | 434 | 1.47 | 0 | 424.3 | | | | 2.38 | 10 |
| Magnesium | 5350 | 183 | 0 | 5137 | | | | 4.06 | 10 |
| Potassium | 2480 | 183 | 0 | 2413 | | | | 2.84 | 10 |
| Selenium | 2.24 | 2.44 | 0 | 2.663 | | | | 17.4 | 10 |
| Silver | 2.90 | 0.978 | 0 | 2.911 | | | | 0.235 | 10 |
| Sodium | 1110 | 183 | 0 | 1086 | | | | 2.04 | 10 |
| Sample ID | 1603188-01A PDS | Batch ID: | 74259 | TestNo: | SW6020A | Units: | mg/Kg-dry | | |
| SampType: | PDS | Run ID: | ICP-MS4_160324H | Analysis Date: | 3/24/2016 6:15:00 PM | Prep Date: | 3/24/2016 | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | |
| Arsenic | 89.6 | 0.978 | 48.90 | 39.99 | 101 | 80 | 120 | | |
| Barium | 139 | 1.96 | 48.90 | 90.13 | 101 | 80 | 120 | | |
| Cadmium | 59.0 | 0.293 | 48.90 | 11.79 | 96.5 | 80 | 120 | | |
| Chromium | 59.7 | 1.96 | 48.90 | 10.49 | 101 | 80 | 120 | | |
| Lead | 473 | 0.293 | 48.90 | 424.3 | 100 | 80 | 120 | | |
| Magnesium | 6420 | 36.7 | 1222 | 5137 | 105 | 80 | 120 | | |
| Potassium | 3640 | 36.7 | 1222 | 2413 | 101 | 80 | 120 | | |
| Selenium | 51.7 | 0.489 | 48.90 | 2.663 | 100 | 80 | 120 | | |
| Silver | 49.4 | 0.196 | 48.90 | 2.911 | 95.1 | 80 | 120 | | |
| Sodium | 2340 | 36.7 | 1222 | 1086 | 103 | 80 | 120 | | |
| Sample ID | 1603188-01A MS | Batch ID: | 74259 | TestNo: | SW6020A | Units: | mg/Kg-dry | | |
| SampType: | MS | Run ID: | ICP-MS4_160324H | Analysis Date: | 3/24/2016 6:17:00 PM | Prep Date: | 3/24/2016 | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | |
| Arsenic | 89.0 | 0.925 | 46.23 | 39.99 | 106 | 80 | 120 | | |
| Barium | 164 | 1.85 | 46.23 | 90.13 | 160 | 80 | 120 | | S |
| Cadmium | 57.8 | 0.277 | 46.23 | 11.79 | 99.4 | 80 | 120 | | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

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CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_160324H

| Sample ID | 1603188-01A MS | Batch ID: | 74259 | TestNo: | SW6020A | | Units: | mg/Kg-dry | | | |
|-----------|----------------|-----------|---|-----------|-------------------------------------|-------|----------|------------|-----------|----------|------|
| SampType: | MS | Run ID: | ICP-MS4_160324H <th></th> <th data-cs="3" data-kind="parent">Analysis Date: 3/24/2016 6:17:00 PM</th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th>Prep Date:</th> <td data-cs="2" data-kind="parent">3/24/2016</td> <td data-kind="ghost"></td> | | Analysis Date: 3/24/2016 6:17:00 PM | | | Prep Date: | 3/24/2016 | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | | 13800 | 34.7 | 1156 | 14710 | -79.3 | 80 | 120 | | | S |
| Chromium | | 56.6 | 1.85 | 46.23 | 10.49 | 99.8 | 80 | 120 | | | |
| Lead | | 487 | 0.277 | 46.23 | 424.3 | 136 | 80 | 120 | | | S |
| Magnesium | | 5780 | 34.7 | 1156 | 5137 | 55.7 | 80 | 120 | | | S |
| Potassium | | 3580 | 34.7 | 1156 | 2413 | 101 | 80 | 120 | | | |
| Selenium | | 48.8 | 0.462 | 46.23 | 2.663 | 99.8 | 80 | 120 | | | |
| Silver | | 48.5 | 0.185 | 46.23 | 2.911 | 98.7 | 80 | 120 | | | |
| Sodium | | 2280 | 34.7 | 1156 | 1086 | 103 | 80 | 120 | | | |

| Sample ID | 1603188-01A MSD | Batch ID: | 74259 | TestNo: | SW6020A | | Units: | mg/Kg-dry | | | |
|-----------|-----------------|-----------|-----------------|-----------|-------------------------------------|-------|----------|------------|-----------|----------|------|
| SampType: | MSD | Run ID: | ICP-MS4_160324H | | Analysis Date: 3/24/2016 6:18:00 PM | | | Prep Date: | 3/24/2016 | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 89.0 | 0.916 | 45.81 | 39.99 | 107 | 80 | 120 | 0.082 | 20 | |
| Barium | | 133 | 1.83 | 45.81 | 90.13 | 94.6 | 80 | 120 | 20.6 | 20 | R |
| Cadmium | | 56.1 | 0.275 | 45.81 | 11.79 | 96.7 | 80 | 120 | 2.96 | 20 | |
| Calcium | | 13900 | 34.4 | 1145 | 14710 | -68.5 | 80 | 120 | 0.953 | 20 | S |
| Chromium | | 55.2 | 1.83 | 45.81 | 10.49 | 97.6 | 80 | 120 | 2.54 | 20 | |
| Lead | | 481 | 0.275 | 45.81 | 424.3 | 123 | 80 | 120 | 1.33 | 20 | S |
| Magnesium | | 5620 | 34.4 | 1145 | 5137 | 41.8 | 80 | 120 | 2.88 | 20 | S |
| Potassium | | 3610 | 34.4 | 1145 | 2413 | 105 | 80 | 120 | 1.00 | 20 | |
| Selenium | | 48.6 | 0.458 | 45.81 | 2.663 | 100 | 80 | 120 | 0.448 | 20 | |
| Silver | | 47.3 | 0.183 | 45.81 | 2.911 | 96.8 | 80 | 120 | 2.66 | 20 | |
| Sodium | | 2250 | 34.4 | 1145 | 1086 | 102 | 80 | 120 | 0.992 | 20 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_160324H

| Sample ID | ICV2-160324 | Batch ID: | R84859 | TestNo: | SW6020A | Units: | mg/L | | | | |
|-----------|-------------|-----------|-----------------|-------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | ICP-MS4_160324H | Analysis Date: 3/24/2016 4:40:00 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.0999 | 0.00500 | 0.100 | 0 | 99.9 | 90 | 110 | | | |
| Barium | | 0.100 | 0.0100 | 0.100 | 0 | 100 | 90 | 110 | | | |
| Cadmium | | 0.0998 | 0.00100 | 0.100 | 0 | 99.8 | 90 | 110 | | | |
| Calcium | | 2.38 | 0.300 | 2.50 | 0 | 95.1 | 90 | 110 | | | |
| Chromium | | 0.104 | 0.00500 | 0.100 | 0 | 104 | 90 | 110 | | | |
| Lead | | 0.0983 | 0.00100 | 0.100 | 0 | 98.3 | 90 | 110 | | | |
| Magnesium | | 2.60 | 0.300 | 2.50 | 0 | 104 | 90 | 110 | | | |
| Potassium | | 2.50 | 0.300 | 2.50 | 0 | 100 | 90 | 110 | | | |
| Selenium | | 0.0998 | 0.00500 | 0.100 | 0 | 99.8 | 90 | 110 | | | |
| Silver | | 0.102 | 0.00200 | 0.100 | 0 | 102 | 90 | 110 | | | |
| Sodium | | 2.54 | 0.300 | 2.50 | 0 | 102 | 90 | 110 | | | |

| Sample ID | ILCVL2-160324 | Batch ID: | R84859 | TestNo: | SW6020A | Units: | mg/L | | | | |
|-----------|---------------|-----------|-----------------|-------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | LCVL | Run ID: | ICP-MS4_160324H | Analysis Date: 3/24/2016 4:44:00 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.00530 | 0.00500 | 0.00500 | 0 | 106 | 70 | 130 | | | |
| Barium | | 0.00542 | 0.0100 | 0.00500 | 0 | 108 | 70 | 130 | | | |
| Cadmium | | 0.00106 | 0.00100 | 0.00100 | 0 | 106 | 70 | 130 | | | |
| Calcium | | 0.106 | 0.300 | 0.100 | 0 | 106 | 70 | 130 | | | |
| Chromium | | 0.00546 | 0.00500 | 0.00500 | 0 | 109 | 70 | 130 | | | |
| Lead | | 0.00102 | 0.00100 | 0.00100 | 0 | 102 | 70 | 130 | | | |
| Magnesium | | 0.109 | 0.300 | 0.100 | 0 | 109 | 70 | 130 | | | |
| Potassium | | 0.117 | 0.300 | 0.100 | 0 | 117 | 70 | 130 | | | |
| Selenium | | 0.00513 | 0.00500 | 0.00500 | 0 | 103 | 70 | 130 | | | |
| Silver | | 0.00215 | 0.00200 | 0.00200 | 0 | 108 | 70 | 130 | | | |
| Sodium | | 0.109 | 0.300 | 0.100 | 0 | 109 | 70 | 130 | | | |

| Sample ID | CCV9-160324 | Batch ID: | R84859 | TestNo: | SW6020A | Units: | mg/L | | | | |
|-----------|-------------|-----------|-----------------|-------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | ICP-MS4_160324H | Analysis Date: 3/24/2016 5:36:00 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.205 | 0.00500 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Barium | | 0.202 | 0.0100 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Cadmium | | 0.202 | 0.00100 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Calcium | | 4.88 | 0.300 | 5.00 | 0 | 97.7 | 90 | 110 | | | |
| Chromium | | 0.204 | 0.00500 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Lead | | 0.200 | 0.00100 | 0.200 | 0 | 100 | 90 | 110 | | | |
| Magnesium | | 5.19 | 0.300 | 5.00 | 0 | 104 | 90 | 110 | | | |
| Potassium | | 5.01 | 0.300 | 5.00 | 0 | 100 | 90 | 110 | | | |
| Selenium | | 0.207 | 0.00500 | 0.200 | 0 | 104 | 90 | 110 | | | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_160324H

| | | | | | | | | | | |
|---|-------------|-----------|-----------------|----------------|----------------------|------------|------|--|--|--|
| Sample ID | CCV9-160324 | Batch ID: | R84859 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | CCV | Run ID: | ICP-MS4_160324H | Analysis Date: | 3/24/2016 5:36:00 PM | Prep Date: | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Silver | 0.204 | 0.00200 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Sodium | 5.20 | 0.300 | 5.00 | 0 | 104 | 90 | 110 | | | |

| | | | | | | | | | | |
|---|--------------|-----------|-----------------|----------------|----------------------|------------|------|--|--|--|
| Sample ID | LCVL9-160324 | Batch ID: | R84859 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | LCVL | Run ID: | ICP-MS4_160324H | Analysis Date: | 3/24/2016 5:40:00 PM | Prep Date: | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Arsenic | 0.00541 | 0.00500 | 0.00500 | 0 | 108 | 70 | 130 | | | |
| Barium | 0.00534 | 0.0100 | 0.00500 | 0 | 107 | 70 | 130 | | | |
| Cadmium | 0.00103 | 0.00100 | 0.00100 | 0 | 103 | 70 | 130 | | | |
| Calcium | 0.103 | 0.300 | 0.100 | 0 | 103 | 70 | 130 | | | |
| Chromium | 0.00537 | 0.00500 | 0.00500 | 0 | 107 | 70 | 130 | | | |
| Lead | 0.00103 | 0.00100 | 0.00100 | 0 | 103 | 70 | 130 | | | |
| Magnesium | 0.111 | 0.300 | 0.100 | 0 | 111 | 70 | 130 | | | |
| Potassium | 0.114 | 0.300 | 0.100 | 0 | 114 | 70 | 130 | | | |
| Selenium | 0.00508 | 0.00500 | 0.00500 | 0 | 102 | 70 | 130 | | | |
| Silver | 0.00219 | 0.00200 | 0.00200 | 0 | 110 | 70 | 130 | | | |
| Sodium | 0.124 | 0.300 | 0.100 | 0 | 124 | 70 | 130 | | | |

| | | | | | | | | | | |
|---|--------------|-----------|-----------------|----------------|----------------------|------------|------|--|--|--|
| Sample ID | CCV10-160324 | Batch ID: | R84859 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | CCV | Run ID: | ICP-MS4_160324H | Analysis Date: | 3/24/2016 6:20:00 PM | Prep Date: | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Arsenic | 0.207 | 0.00500 | 0.200 | 0 | 103 | 90 | 110 | | | |
| Barium | 0.197 | 0.0100 | 0.200 | 0 | 98.4 | 90 | 110 | | | |
| Cadmium | 0.198 | 0.00100 | 0.200 | 0 | 98.9 | 90 | 110 | | | |
| Calcium | 4.85 | 0.300 | 5.00 | 0 | 97.0 | 90 | 110 | | | |
| Chromium | 0.205 | 0.00500 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Lead | 0.198 | 0.00100 | 0.200 | 0 | 99.0 | 90 | 110 | | | |
| Magnesium | 5.10 | 0.300 | 5.00 | 0 | 102 | 90 | 110 | | | |
| Potassium | 5.03 | 0.300 | 5.00 | 0 | 101 | 90 | 110 | | | |
| Selenium | 0.204 | 0.00500 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Silver | 0.199 | 0.00200 | 0.200 | 0 | 99.4 | 90 | 110 | | | |
| Sodium | 5.09 | 0.300 | 5.00 | 0 | 102 | 90 | 110 | | | |

| | | | | | | | | | | |
|---|---------------|-----------|-----------------|----------------|----------------------|------------|------|--|--|--|
| Sample ID | LCVL10-160324 | Batch ID: | R84859 | TestNo: | SW6020A | Units: | mg/L | | | |
| SampType: | LCVL | Run ID: | ICP-MS4_160324H | Analysis Date: | 3/24/2016 6:24:00 PM | Prep Date: | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Arsenic | 0.00541 | 0.00500 | 0.00500 | 0 | 108 | 70 | 130 | | | |
| Barium | 0.00532 | 0.0100 | 0.00500 | 0 | 106 | 70 | 130 | | | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_160324H

| Sample ID | Batch ID: | TestNo: | | Units: | | mg/L | | | | |
|-----------|-----------|---------|-----------------|-------------------------------------|------|------------|-----------|------|----------|------|
| SampType: | LCVL | Run ID: | ICP-MS4_160324H | Analysis Date: 3/24/2016 6:24:00 PM | | Prep Date: | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Cadmium | 0.00110 | 0.00100 | 0.00100 | 0 | 110 | 70 | 130 | | | |
| Calcium | 0.107 | 0.300 | 0.100 | 0 | 107 | 70 | 130 | | | |
| Chromium | 0.00539 | 0.00500 | 0.00500 | 0 | 108 | 70 | 130 | | | |
| Lead | 0.00121 | 0.00100 | 0.00100 | 0 | 121 | 70 | 130 | | | |
| Magnesium | 0.110 | 0.300 | 0.100 | 0 | 110 | 70 | 130 | | | |
| Potassium | 0.107 | 0.300 | 0.100 | 0 | 107 | 70 | 130 | | | |
| Selenium | 0.00524 | 0.00500 | 0.00500 | 0 | 105 | 70 | 130 | | | |
| Silver | 0.00218 | 0.00200 | 0.00200 | 0 | 109 | 70 | 130 | | | |
| Sodium | 0.0887 | 0.300 | 0.100 | 0 | 88.7 | 70 | 130 | | | |

| Sample ID | Batch ID: | TestNo: | | Units: | | mg/L | | | | |
|-----------|-----------|---------|-----------------|-------------------------------------|------|------------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | ICP-MS4_160324H | Analysis Date: 3/24/2016 6:37:00 PM | | Prep Date: | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | 0.203 | 0.00500 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Barium | 0.203 | 0.0100 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Cadmium | 0.203 | 0.00100 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Calcium | 4.91 | 0.300 | 5.00 | 0 | 98.2 | 90 | 110 | | | |
| Chromium | 0.204 | 0.00500 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Lead | 0.200 | 0.00100 | 0.200 | 0 | 100 | 90 | 110 | | | |
| Magnesium | 5.15 | 0.300 | 5.00 | 0 | 103 | 90 | 110 | | | |
| Potassium | 4.98 | 0.300 | 5.00 | 0 | 99.7 | 90 | 110 | | | |
| Selenium | 0.203 | 0.00500 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Silver | 0.206 | 0.00200 | 0.200 | 0 | 103 | 90 | 110 | | | |
| Sodium | 5.09 | 0.300 | 5.00 | 0 | 102 | 90 | 110 | | | |

| Sample ID | Batch ID: | TestNo: | | Units: | | mg/L | | | | |
|-----------|-----------|---------|-----------------|-------------------------------------|------|------------|-----------|------|----------|------|
| SampType: | LCVL | Run ID: | ICP-MS4_160324H | Analysis Date: 3/24/2016 6:41:00 PM | | Prep Date: | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | 0.00532 | 0.00500 | 0.00500 | 0 | 106 | 70 | 130 | | | |
| Barium | 0.00525 | 0.0100 | 0.00500 | 0 | 105 | 70 | 130 | | | |
| Cadmium | 0.00105 | 0.00100 | 0.00100 | 0 | 105 | 70 | 130 | | | |
| Calcium | 0.105 | 0.300 | 0.100 | 0 | 105 | 70 | 130 | | | |
| Chromium | 0.00545 | 0.00500 | 0.00500 | 0 | 109 | 70 | 130 | | | |
| Lead | 0.00109 | 0.00100 | 0.00100 | 0 | 109 | 70 | 130 | | | |
| Magnesium | 0.112 | 0.300 | 0.100 | 0 | 112 | 70 | 130 | | | |
| Potassium | 0.111 | 0.300 | 0.100 | 0 | 111 | 70 | 130 | | | |
| Selenium | 0.00513 | 0.00500 | 0.00500 | 0 | 103 | 70 | 130 | | | |
| Silver | 0.00215 | 0.00200 | 0.00200 | 0 | 108 | 70 | 130 | | | |
| Sodium | 0.0916 | 0.300 | 0.100 | 0 | 91.6 | 70 | 130 | | | |

| | | |
|--------------------|---|---|
| Qualifiers: | B Analyte detected in the associated Method Blank | DF Dilution Factor |
| J | Analyte detected between MDL and RL | MDL Method Detection Limit |
| ND | Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| RL | Reporting Limit | S Spike Recovery outside control limits |
| J | Analyte detected between SDL and RL | N Parameter not NELAC certified |

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_160325A

The QC data in batch 74259 applies to the following samples: 1603209-01A, 1603209-02A, 1603209-03A, 1603209-04A, 1603209-05A

| Sample ID | 1603188-01A SD | Batch ID: | 74259 | TestNo: | SW6020A | Units: | mg/Kg-dry | | | |
|-----------|-----------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | SD | Run ID: | ICP-MS4_160325A | Analysis Date: | 3/25/2016 2:17:00 PM | Prep Date: | 3/24/2016 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | 15500 | 1830 | 0 | 15650 | | | | 1.10 | 10 | |
| Sample ID | 1603188-01A PDS | Batch ID: | 74259 | TestNo: | SW6020A | Units: | mg/Kg-dry | | | |
| SampType: | PDS | Run ID: | ICP-MS4_160325A | Analysis Date: | 3/25/2016 2:31:00 PM | Prep Date: | 3/24/2016 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | 27000 | 367 | 12220 | 15650 | 92.6 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_160325A

| Sample ID | ICV-160325 | Batch ID: | R84882 | TestNo: | SW6020A | Units: | mg/L | | | | |
|-----------|------------|-----------|-----------------|----------------|----------------------|------------|----------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | ICP-MS4_160325A | Analysis Date: | 3/25/2016 2:01:00 PM | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.102 | 0.00500 | 0.100 | 0 | 102 | 90 | 110 | | | |
| Barium | | 0.0984 | 0.0100 | 0.100 | 0 | 98.4 | 90 | 110 | | | |
| Cadmium | | 0.0976 | 0.00100 | 0.100 | 0 | 97.6 | 90 | 110 | | | |
| Calcium | | 2.37 | 0.300 | 2.50 | 0 | 94.8 | 90 | 110 | | | |
| Chromium | | 0.106 | 0.00500 | 0.100 | 0 | 106 | 90 | 110 | | | |
| Lead | | 0.0987 | 0.00100 | 0.100 | 0 | 98.7 | 90 | 110 | | | |
| Selenium | | 0.103 | 0.00500 | 0.100 | 0 | 103 | 90 | 110 | | | |
| Silver | | 0.100 | 0.00200 | 0.100 | 0 | 100 | 90 | 110 | | | |

| Sample ID | LCVL-160325 | Batch ID: | R84882 | TestNo: | SW6020A | Units: | mg/L | | | | |
|-----------|-------------|-----------|-----------------|----------------|----------------------|------------|----------|-----------|------|----------|------|
| SampType: | LCVL | Run ID: | ICP-MS4_160325A | Analysis Date: | 3/25/2016 2:09:00 PM | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.00532 | 0.00500 | 0.00500 | 0 | 106 | 70 | 130 | | | |
| Barium | | 0.00505 | 0.0100 | 0.00500 | 0 | 101 | 70 | 130 | | | |
| Cadmium | | 0.00103 | 0.00100 | 0.00100 | 0 | 103 | 70 | 130 | | | |
| Calcium | | 0.111 | 0.300 | 0.100 | 0 | 111 | 70 | 130 | | | |
| Chromium | | 0.00536 | 0.00500 | 0.00500 | 0 | 107 | 70 | 130 | | | |
| Lead | | 0.00100 | 0.00100 | 0.00100 | 0 | 100 | 70 | 130 | | | |
| Selenium | | 0.00521 | 0.00500 | 0.00500 | 0 | 104 | 70 | 130 | | | |
| Silver | | 0.00212 | 0.00200 | 0.00200 | 0 | 106 | 70 | 130 | | | |

| Sample ID | CCV1-160325 | Batch ID: | R84882 | TestNo: | SW6020A | Units: | mg/L | | | | |
|-----------|-------------|-----------|-----------------|----------------|----------------------|------------|----------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | ICP-MS4_160325A | Analysis Date: | 3/25/2016 2:47:00 PM | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.201 | 0.00500 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Barium | | 0.198 | 0.0100 | 0.200 | 0 | 98.9 | 90 | 110 | | | |
| Cadmium | | 0.196 | 0.00100 | 0.200 | 0 | 98.1 | 90 | 110 | | | |
| Calcium | | 4.90 | 0.300 | 5.00 | 0 | 98.1 | 90 | 110 | | | |
| Chromium | | 0.206 | 0.00500 | 0.200 | 0 | 103 | 90 | 110 | | | |
| Lead | | 0.197 | 0.00100 | 0.200 | 0 | 98.5 | 90 | 110 | | | |
| Selenium | | 0.203 | 0.00500 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Silver | | 0.197 | 0.00200 | 0.200 | 0 | 98.4 | 90 | 110 | | | |

| Sample ID | LCVL1-160325 | Batch ID: | R84882 | TestNo: | SW6020A | Units: | mg/L | | | | |
|-----------|--------------|-----------|-----------------|----------------|----------------------|------------|----------|-----------|------|----------|------|
| SampType: | LCVL | Run ID: | ICP-MS4_160325A | Analysis Date: | 3/25/2016 2:51:00 PM | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.00543 | 0.00500 | 0.00500 | 0 | 109 | 70 | 130 | | | |
| Barium | | 0.00530 | 0.0100 | 0.00500 | 0 | 106 | 70 | 130 | | | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_160325A

| Sample ID | LCVL1-160325 | Batch ID: | R84882 | TestNo: | SW6020A | Units: | mg/L | | | |
|-----------|--------------|-----------|-----------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | LCVL | Run ID: | ICP-MS4_160325A | Analysis Date: | 3/25/2016 2:51:00 PM | Prep Date: | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Cadmium | 0.00102 | 0.00100 | 0.00100 | 0 | 102 | 70 | 130 | | | |
| Calcium | 0.105 | 0.300 | 0.100 | 0 | 105 | 70 | 130 | | | |
| Chromium | 0.00546 | 0.00500 | 0.00500 | 0 | 109 | 70 | 130 | | | |
| Lead | 0.00101 | 0.00100 | 0.00100 | 0 | 101 | 70 | 130 | | | |
| Selenium | 0.00524 | 0.00500 | 0.00500 | 0 | 105 | 70 | 130 | | | |
| Silver | 0.00211 | 0.00200 | 0.00200 | 0 | 105 | 70 | 130 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_160328A

The QC data in batch 74292 applies to the following samples: 1603209-01B, 1603209-02B, 1603209-03B, 1603209-04B, 1603209-05B, 1603209-06A, 1603209-07A, 1603209-08A, 1603209-09A, 1603209-10A

| | | | | | | | |
|----------------|-----------------|-----------|-------------|----------------|-----------------------|------------|---------------------------------------|
| Sample ID | LCS-74292 | Batch ID: | 74292 | TestNo: | SW9056A | Units: | mg/Kg |
| SampType: | LCS | Run ID: | IC2_160328A | Analysis Date: | 3/28/2016 9:47:20 AM | Prep Date: | 3/28/2016 |
| Analyte | | | | | | | |
| | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride | | 47.2 | 5.00 | 50.00 | 0 | 94.4 | 80 120 |
| Sulfate | | 150 | 10.0 | 150.0 | 0 | 100 | 80 120 |
| Sample ID | LCSD-74292 | Batch ID: | 74292 | TestNo: | SW9056A | Units: | mg/Kg |
| SampType: | LCSD | Run ID: | IC2_160328A | Analysis Date: | 3/28/2016 10:01:57 AM | Prep Date: | 3/28/2016 |
| Analyte | | | | | | | |
| | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride | | 47.0 | 5.00 | 50.00 | 0 | 93.9 | 80 120 0.550 15 |
| Sulfate | | 150 | 10.0 | 150.0 | 0 | 99.7 | 80 120 0.393 15 |
| Sample ID | MB-74292 | Batch ID: | 74292 | TestNo: | SW9056A | Units: | mg/Kg |
| SampType: | MBLK | Run ID: | IC2_160328A | Analysis Date: | 3/28/2016 10:16:33 AM | Prep Date: | 3/28/2016 |
| Analyte | | | | | | | |
| | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride | | <5.00 | 5.00 | | | | |
| Sulfate | | <10.0 | 10.0 | | | | |
| Sample ID | 1603209-10A-DUP | Batch ID: | 74292 | TestNo: | SW9056A | Units: | mg/Kg-dry |
| SampType: | DUP | Run ID: | IC2_160328A | Analysis Date: | 3/28/2016 3:50:38 PM | Prep Date: | 3/28/2016 |
| Analyte | | | | | | | |
| | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride | | 2150 | 504 | 0 | 2104 | | 2.02 10 |
| Sulfate | | 8050 | 1010 | 0 | 7890 | | 1.99 10 |
| Sample ID | 1603209-10AMS | Batch ID: | 74292 | TestNo: | SW9056A | Units: | mg/Kg-dry |
| SampType: | MS | Run ID: | IC2_160328A | Analysis Date: | 3/28/2016 4:05:14 PM | Prep Date: | 3/28/2016 |
| Analyte | | | | | | | |
| | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride | | 2180 | 506 | 101.3 | 2104 | 79.4 | 80 120 S |
| Sulfate | | 7590 | 1010 | 101.3 | 7890 | -292 | 80 120 S |
| Sample ID | 1603209-10AMSD | Batch ID: | 74292 | TestNo: | SW9056A | Units: | mg/Kg-dry |
| SampType: | MSD | Run ID: | IC2_160328A | Analysis Date: | 3/28/2016 4:19:51 PM | Prep Date: | 3/28/2016 |
| Analyte | | | | | | | |
| | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride | | 2270 | 488 | 97.63 | 2104 | 175 | 80 120 4.05 15 S |
| Sulfate | | 7680 | 976 | 97.63 | 7890 | -215 | 80 120 1.12 15 S |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_160328A

| | | | | | | | | | | |
|---|-------------|-----------|-------------|----------------|----------------------|------------|-------|--|--|--|
| Sample ID | ICV-160328 | Batch ID: | R84888 | TestNo: | SW9056A | Units: | mg/Kg | | | |
| SampType: | ICV | Run ID: | IC2_160328A | Analysis Date: | 3/28/2016 9:31:15 AM | Prep Date: | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Chloride | 24.9 | 5.00 | 25.00 | 0 | 99.5 | 90 | 110 | | | |
| Sulfate | 78.3 | 10.0 | 75.00 | 0 | 104 | 90 | 110 | | | |
| Sample ID | CCV1-160328 | Batch ID: | R84888 | TestNo: | SW9056A | Units: | mg/Kg | | | |
| SampType: | CCV | Run ID: | IC2_160328A | Analysis Date: | 3/28/2016 1:23:28 PM | Prep Date: | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Chloride | 9.89 | 5.00 | 10.00 | 0 | 98.9 | 90 | 110 | | | |
| Sulfate | 32.1 | 10.0 | 30.00 | 0 | 107 | 90 | 110 | | | |
| Sample ID | CCV2-160328 | Batch ID: | R84888 | TestNo: | SW9056A | Units: | mg/Kg | | | |
| SampType: | CCV | Run ID: | IC2_160328A | Analysis Date: | 3/28/2016 4:39:41 PM | Prep Date: | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Chloride | 9.94 | 5.00 | 10.00 | 0 | 99.4 | 90 | 110 | | | |
| Sulfate | 31.8 | 10.0 | 30.00 | 0 | 106 | 90 | 110 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_160323A

The QC data in batch 74245 applies to the following samples: 1603209-01B, 1603209-02B, 1603209-03B, 1603209-04B, 1603209-05B, 1603209-06A, 1603209-07A, 1603209-08A, 1603209-09A, 1603209-10A

| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
|----------------------------|-----------------------|-------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| Sample ID ICV-160323 | Batch ID: 74245 | TestNo: E418.1 | Units: mg/Kg | | | | | | | |
| SampType: ICV | Run ID: IR207_160323A | Analysis Date: 3/23/2016 2:30:00 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 267 | 10.0 | 250.0 | 0 | 107 | 90 | 110 | | | N |
| Sample ID LCS-74245 | Batch ID: 74245 | TestNo: E418.1 | Units: mg/Kg | | | | | | | |
| SampType: LCS | Run ID: IR207_160323A | Analysis Date: 3/23/2016 2:30:00 PM | Prep Date: 3/23/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 112 | 10.0 | 100.0 | 0 | 112 | 80 | 120 | | | N |
| Sample ID MB-74245 | Batch ID: 74245 | TestNo: E418.1 | Units: mg/Kg | | | | | | | |
| SampType: MBLK | Run ID: IR207_160323A | Analysis Date: 3/23/2016 2:30:00 PM | Prep Date: 3/23/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | <10.0 | 10.0 | | | | | | | | N |
| Sample ID 1603209-10AMS | Batch ID: 74245 | TestNo: E418.1 | Units: mg/Kg-dry | | | | | | | |
| SampType: MS | Run ID: IR207_160323A | Analysis Date: 3/23/2016 2:30:00 PM | Prep Date: 3/23/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 1470 | 50.8 | 101.6 | 2080 | -596 | 80 | 120 | | | SN |
| Sample ID 1603209-10AMSD | Batch ID: 74245 | TestNo: E418.1 | Units: mg/Kg-dry | | | | | | | |
| SampType: MSD | Run ID: IR207_160323A | Analysis Date: 3/23/2016 2:30:00 PM | Prep Date: 3/23/2016 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 1750 | 49.9 | 99.89 | 2080 | -331 | 80 | 120 | 17.1 | 20 | SN |
| Sample ID CCV-160323 | Batch ID: 74245 | TestNo: E418.1 | Units: mg/Kg | | | | | | | |
| SampType: CCV | Run ID: IR207_160323A | Analysis Date: 3/23/2016 2:30:00 PM | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 272 | 10.0 | 250.0 | 0 | 109 | 85 | 115 | | | N |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_160325A

The QC data in batch 74287 applies to the following samples: 1603209-01B, 1603209-02B, 1603209-03B, 1603209-04B, 1603209-05B, 1603209-06A, 1603209-07A, 1603209-08A, 1603209-09A, 1603209-10A

| Sample ID | 1603222-01A DUP | Batch ID: | 74287 | TestNo: | D2216 | Units: | WT% |
|------------------|-----------------|-----------|----------------|----------------|-----------------------|------------|---------------------------------------|
| SampType: | DUP | Run ID: | PMOIST_160325A | Analysis Date: | 3/28/2016 10:17:00 AM | Prep Date: | 3/25/2016 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Percent Moisture | | 0.406 | 0 | 0 | 0.4062 | 0.081 | 30 |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_160323A

The QC data in batch 74217 applies to the following samples: 1603209-01B, 1603209-02B, 1603209-03B, 1603209-04B, 1603209-05B

| Sample ID | MB-74217 | Batch ID: | 74217 | TestNo: | M2320 B | Units: | mg/L @ pH 4.38 | | | | |
|------------------------------------|-----------------|-----------|------------------|----------------|-----------------------|------------|-------------------|-----------|------|----------|------|
| SampType: | MLBK | Run ID: | TITRATOR_160323A | Analysis Date: | 3/23/2016 9:17:00 AM | Prep Date: | 3/22/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Bicarbonate (As CaCO3) | <50.0 | 50.0 | | | | | | | | | |
| Alkalinity, Carbonate (As CaCO3) | <50.0 | 50.0 | | | | | | | | | |
| Alkalinity, Hydroxide (As CaCO3) | <50.0 | 50.0 | | | | | | | | | |
| Alkalinity, Total (As CaCO3) | <50.0 | 50.0 | | | | | | | | | |
| Sample ID | LCS-74217 | Batch ID: | 74217 | TestNo: | M2320 B | Units: | mg/L @ pH 4.51 | | | | |
| SampType: | LCS | Run ID: | TITRATOR_160323A | Analysis Date: | 3/23/2016 9:21:00 AM | Prep Date: | 3/22/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 266 | 50.0 | 250.0 | 0 | 107 | 81.6 | 123 | | | | |
| Sample ID | LCS-74217-2 | Batch ID: | 74217 | TestNo: | M2320 B | Units: | mg/L @ pH 4.5 | | | | |
| SampType: | LCS | Run ID: | TITRATOR_160323A | Analysis Date: | 3/23/2016 9:38:00 AM | Prep Date: | 3/22/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 271 | 50.0 | 250.0 | 0 | 108 | 81.6 | 123 | | | | |
| Sample ID | LCS-74217-3 | Batch ID: | 74217 | TestNo: | M2320 B | Units: | mg/L @ pH 4.51 | | | | |
| SampType: | LCS | Run ID: | TITRATOR_160323A | Analysis Date: | 3/23/2016 9:43:00 AM | Prep Date: | 3/22/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 270 | 50.0 | 250.0 | 0 | 108 | 81.6 | 123 | | | | |
| Sample ID | LCS-74217-4 | Batch ID: | 74217 | TestNo: | M2320 B | Units: | mg/L @ pH 4.51 | | | | |
| SampType: | LCS | Run ID: | TITRATOR_160323A | Analysis Date: | 3/23/2016 9:47:00 AM | Prep Date: | 3/22/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) | 264 | 50.0 | 250.0 | 0 | 106 | 81.6 | 123 | | | | |
| Sample ID | 1603209-01B-DUP | Batch ID: | 74217 | TestNo: | M2320 B | Units: | mg/L @ pH 4.51-dr | | | | |
| SampType: | DUP | Run ID: | TITRATOR_160323A | Analysis Date: | 3/23/2016 10:19:00 AM | Prep Date: | 3/22/2016 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Bicarbonate (As CaCO3) | 212 | 55.6 | 0 | 209.1 | | | 1.20 | 0 | | | |
| Alkalinity, Carbonate (As CaCO3) | <55.6 | 55.6 | 0 | 0 | | | 0 | 0 | | | |
| Alkalinity, Hydroxide (As CaCO3) | <55.6 | 55.6 | 0 | 0 | | | 0 | 0 | | | |
| Alkalinity, Total (As CaCO3) | 212 | 55.6 | 0 | 209.1 | | | 1.20 | 25 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1603209
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_160323A

| Sample ID | ICV-160323 | Batch ID: | R84808 | TestNo: | M2320 B | Units: | mg/L @ pH 4.51 | | | |
|---|------------|-----------|------------------|----------------|-----------------------|------------|----------------|------|----------|------|
| SampType: | ICV | Run ID: | TITRATOR_160323A | Analysis Date: | 3/23/2016 9:05:00 AM | Prep Date: | 3/23/2016 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Bicarbonate (As CaCO ₃) | 8.80 | 20.0 | 0 | | | | | | | |
| Alkalinity, Carbonate (As CaCO ₃) | 92.6 | 20.0 | 0 | | | | | | | |
| Alkalinity, Hydroxide (As CaCO ₃) | <20.0 | 20.0 | 0 | | | | | | | |
| Alkalinity, Total (As CaCO ₃) | 101 | 20.0 | 100.0 | 0 | 101 | 98 | 102 | | | |
| Sample ID | CCV-160323 | Batch ID: | R84808 | TestNo: | M2320 B | Units: | mg/L @ pH 4.53 | | | |
| SampType: | CCV | Run ID: | TITRATOR_160323A | Analysis Date: | 3/23/2016 10:50:00 AM | Prep Date: | 3/23/2016 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Alkalinity, Bicarbonate (As CaCO ₃) | 9.20 | 50.0 | 0 | | | | | | | |
| Alkalinity, Carbonate (As CaCO ₃) | 93.3 | 50.0 | 0 | | | | | | | |
| Alkalinity, Hydroxide (As CaCO ₃) | <50.0 | 50.0 | 0 | | | | | | | |
| Alkalinity, Total (As CaCO ₃) | 102 | 50.0 | 100.0 | 0 | 102 | 90 | 110 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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Stephanie Garza, P.E.
New Mexico, LLC
R360 Environmental Solutions, LLC

June 9, 2016

Mr. Brad Jones
Oil Conservation Division
New Mexico Energy, Minerals and
Natural Resources Department
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: 2015 Annual Summary Report, R360 Artesia, LLC Landfarm (NM1-30-0), Unit B
(NW/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New
Mexico

Mr. Jones:

Enclosed is the Annual Summary Report during the year of 2015 for R360 Artesia,
LLC Landfarm . You may contact me at (956) 458-0515 or by email at
StephanieG@R360es.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie Garza".

Stephanie Garza
R360 Environmental Solutions, LLC

Attachments

2015
SURFACE WASTE MANAGEMENT
FACILITY REPORT
R360 Artesia, LLC Landfarm
(NM-01-030)

Lea County, New Mexico

Project No. 15-0121-01

June 3, 2016

Prepared for:

**R360 Permian Basin, LLC
507 N. Marienfeld Street, Suite 200
Midland, Texas 79701**

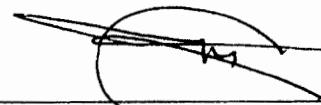
Prepared by:

**Larson & Associates, Inc.
507 North Marienfeld, Suite 205
Midland, Texas 79701**

Carson Hughes

Carson Hughes

Chemist/Engineering Professional



Mark J. Larson CPG 10490

President/Geologist

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1.0 EXECUTIVE SUMMARY

This report presents the laboratory analysis of treatment and vadose zone soil samples, and maintenance for 2015 at the R360 Artesia, LLC Landfarm (Facility). The Facility is owned by R360 , LLC (R360), and a wholly owned subsidiary of Waste Connections., Inc.. The Facility is permitted by the New Mexico Oil Conservation Division (OCD) as a commercial surface waste management facility (MW-1-030) and is located in Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East in Lea County, New Mexico. The geodetic position is 32° 51' 171" north and 103° 47' 56.9" west.

The following activities were conducted during 2015:

- Monthly tilling and inspections;
- First (1st) quarter treatment and vadose zone sampling event (February 24, 2015);
- Second (2nd) quarter treatment and vadose sampling event (April 14, 2015);
- Third (3rd) quarter treatment and vadose sampling event (August 4, 2015); and
- Fourth (4th) quarter treatment and vadose sampling event (October 12, 2015).

During 2015 the OCD approved adding an additional lift of contaminated soil to cells 1 through 4. An additional lift of contaminated soil was added to cells 1, 3 and 4 from the area underlain by shallow groundwater in the southwest corner of cell 5 and cell6. No additional soil was added to cell 2.

After review of the analytical data, the following conclusions were drawn:

- BTEX was below the treatment zone closure performance standard in treatment zone samples during 2015;
- TPH was below the treatment performance closure standard (500 mg/kg) in treatment zone samples during 2015;
- TPH, metals, and chlorides remain above the permit and/or background mean levels in the cells requiring a continuation of the surface waste management plan.
- R360 will continue monthly tilling of cells 1, 2, 3, 4, and 5, treatment zone monitoring (cells 1, 3,4 and 5) and vadose zone monitoring (cells 1 through 5) and report results to OCD.
- The cell modification plans are still in progress at the time of this report.

1.0 INTRODUCTION

This report has been prepared by Larson & Associates, Inc. (LAI) to present vadose and treatment zone monitoring results for 2015 at the R360 Artesia Aeration, LLC (R360) Landfarm (Facility) located in Lea County, New Mexico. The Facility is permitted by the New Mexico Oil Conservation Division (OCD) as a commercial surface waste management facility (NM-1-0030) for treating exempt oil field waste (i.e., soil and drill cuttings) contaminated predominately by petroleum hydrocarbons. The Facility occupies approximately 48.4 acres in Unit A (NE/4, NE/4), Section 7, Township 17 South and Range 32 East in Lea County, New Mexico. The geodetic position is north 32° 51' 4.93" and west 103° 48' 15.45". The Facility is divided into 6 cells (Cell 1 through Cell 6) ranging in size from about 2.74 acres (Cell 1) to 13.28 acres (Cell 6). Figure 1 presents a detailed topographic map. Figure 2 presents an aerial map. Figure 3 presents a Facility drawing

The Facility was permitted Artesia Aeration Landfarm on November 29, 1999. R360 acquired the Facility in April 2011. R360 has accepted no new material at the Facility.

2.0 LANDFARM COMPLIANCE

2.1 *Buffer Zone*

During March 2015 Lighthouse Environmental Services, Inc. (Lighthouse) was contracted by R360 to construct the buffer zone and cell berm north cells 1 through 4. The permit states that no contaminated soils are allowed within 100 feet of the permit boundary. The previous owner had placed contaminated soil within 100 feet of the Facility fence. Lighthouse removed contaminated soil from the buffer zone of north of cells 1 though 4 and spread the soil evenly over the respective cell. A new berm was constructed north of cells 1 through 4 to separate contaminated soil from the buffer zone. This work was performed in accordance with Plan 1 – Berm and Buffer Plan dated November 19, 2014 and approved by OCD on November 24, 2014. LAI personnel used direct push methods in accordance with Plan 1 to collect vadose zone soil samples from the buffer zone following removal of contaminated soil and construction of the cell berms. The results of the buffer zone samples are included in a separate submittal. Figure 4 presents a drawing for the constructed berm and buffer zone north of cell 1 through 4. Appendix A presents OCD approval for Plan 1.

2.2 Additional Soil Lifts

In 2015 R360 requested and was approved to add an additional lift of contaminated soil to cell 1 through 4. An additional lift of contaminated soil was added to cell 1, 3 and 4. No soil was added to cell 2. The source for the soil was the southwest corner of cell 5 and cell 6 underlain by shallow groundwater. Beginning in March of 2015 soil from the treatment zone from the southwest corner of cell 5 and CELL 6 was removed and placed as an additional lift on cells 1, 3, and 4. Appendix A presents OCD approval for the additional lift requests for cells 1 through 4.

3.0 LANDFARM MAINTENANCE

3.1 Inspections

Inspections were conducted monthly according to the permit requirements and found the Facility in compliance except areas of the perimeter fence that require periodic maintenance to prevent intrusion from livestock.

3.2 Tilling

Tilling of the treatment zone is performed on a monthly schedule.

4.0 LANDFARM MONITORING

4.1 Background Samples

Between July 15 and 17, 2013, LAI personnel collected background samples from the area north of Cell 5 and Cell 6. The background samples were collected according to a plan approved by the OCD, on July 1, 2013. Twelve (12) composite samples, each consisting of 16 discreet samples, were collected from sampling grids (1 through 12) that were established over the area. The discrete samples were collected from about 1 foot below ground surface (bgs) using stainless steel hand augers. The hand augers were decontaminated between samples with a solution of distilled water and laboratory-grade detergent (Alconox®) and rinsed with distilled water. The discrete samples were collected in 4-ounce glass jars that were chilled in an ice chest until 16 samples were collected from the grid. The discrete samples (16) for each grid were homogenized in a stainless steel bowl and transferred to laboratory containers using a stainless steel trowel. The stainless steel bowl and trowel were decontaminated between composite samples as previously stated. The laboratory containers were labeled, chilled in an ice chest and delivered under chain of custody to DHL Analytical, a National Environmental Laboratory Accreditation Program (NELAP) laboratory, located in Round Rock, Texas. The laboratory analyzed the samples for total recoverable petroleum hydrocarbons (TRPH) by method 418.1, BTEX and other constituents listed in Subsections A and B of 20.6.2.3103 NMAC by method SW-846-8260C SW-846-8270B, SW-846-6020A, and SW-846-7471B as appropriate, and chloride by method E300.

The following is a summary of the average and 2 standard deviation concentrations for the metal constituents reported in the background samples:

| Metal | Mean (mg/Kg) | 2 Standard Deviations (mg/Kg) |
|-----------|--------------|-------------------------------|
| Arsenic | 2.38 | 3.61 |
| Barium | 68.96 | 168.37 |
| Cadmium | 0.21 | 0.35 |
| Chromium | 7.13 | 11.04 |
| Copper | 3.12 | 6.44 |
| Iron | 6,731 | 9,634.36 |
| Lead | 5.71 | 16.10 |
| Manganese | 78.34 | 152.70 |
| Mercury | <0.0164 | 0.0624 |
| Selenium | 0.90 | 1.50 |
| Silver | <0.106629 | 1.41 |
| Zinc | 17.52 | 34.84 |

The following is a summary of the average and 2 standard deviation concentrations for TRPH, chloride, fluoride and sulfate constituents reported in the background samples:

| Constituent | Mean (mg/Kg) | 2 Standard Deviations (mg/Kg) |
|-------------|--------------|-------------------------------|
| TRPH | 229 | 533.24 |
| Chloride | 31.0 | 747.0 |
| Fluoride | 2.53 | 6.18 |
| Sulfate | 808 | 6,239 |

Cyanide and nitrate were not reported above the MDL.

4.2 Treatment (Tilled) Zone Soil Samples

Vadose zone samples were collected on February 24, 2015 (1st Quarter), April 14, 2015 (2nd Quarter), August 4, 2015 (3rd Quarter) and October 12, 2015 (4th Quarter). No soil was added to cell 1, 2, 3 and 4 following OCD approval to add an additional lift treatment zone therefore no treatment zone samples were collected from these cells during the first quarter 2015. No additional soil was added to cell 2 therefore no treatment zone samples were collected during 2015. Collected samples were retrieved from 0-1 foot depth of the tilled zone using a hand auger. Sample aliquots were immediately placed in pre-cleaned 4-ounce jars, properly labeled, and iced upon collection. The samples were shipped via LoneStar Overnight, under custody seals and chain of custody to DHL. The samples were analyzed for BTEX, TPH, and chloride. Treatment zone samples from the 4th quarter (October 12, 2015) were

analyzed and reported for TPH by method TX1005. Table 1 presents a summary of the BTEX, TPH, and chloride analysis. Laboratory reports are included in Appendix B.

4.2.1 Organic Sample Results

BTEX constituents by method SW-846-8021B were below the reporting limits and treatment zone closure standards for all treatment zone samples during 2015.

TPH by EPA SW-846 method 8015 were below the treatment zone closure standard of 500ppm in treatment zone samples from cells 1, 3, 4, 5 and 6 during 2015.

TRPH by method 418.1 was not detected above the permit limit threshold of 2,500 mg/Kg in treatment zone samples from cells 1, 3, 4, 5 and 6 during 2015.

4.2.2 Chloride Sample Results

Chloride was detected above the permit threshold limit of 1,000 ppm in cell 1 during the third quarter (1,100 mg/Kg), and cell 5 during the second (1,070 mg/Kg) and third (3,790 mg/Kg) quarters on April 14, 2015 and August 4, 2015, respectively. However, the average chloride concentrations for cells 1, 3, 4, and 5 for 2015 were 465 mg/Kg, 375 mg/Kg, 90.6 mg/Kg, and 1,360 mg/Kg respectively.

4.3. Vadose Zone Samples

Vadose zone samples were collected on February 24, 2015 (1st Quarter), April 14, 2015 (2nd Quarter), August 4, 2015 (3rd Quarter) and October 12, 2015 (4th Quarter). The samples were collected from native soil approximately 2 and 3 feet below the cells using a Terraprobe® direct push rig. The Terraprobe® pushes or percussion hammers a 4-foot long stainless steel core barrel into the subsurface and collects a 4-foot long soil core. The core barrel is equipped with polyethene liners to minimize cross contamination between samples. Contaminated soil was scraped from each location to expose the native soil and minimize transfer of contaminated soil into the vadose zone.

The samples were collected in 4-ounce glass containers that were labeled, chilled in an ice chest and delivered to DHL. The laboratory analyzed the samples for benzene, toluene, ethylbenzene, xylenes (BTEX) by method SW-846-8021B, total residual petroleum hydrocarbon (TRPH) by EPA method 418.1, and total petroleum hydrocarbons (TPH), including diesel (DRO) and gasoline (GRO) range organics, by method SW-846-8015. Samples from April 14, 2015 (2nd Quarter), were analyzed for metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver), cations (calcium, magnesium, sodium and potassium) and anions (alkalinity, sulfate and chloride). Vadose samples from the 4th quarter (October 12, 2015) were analyzed and reported for TPH by method TX1005. The boreholes were filled with bentonite and the locations recorded with a Trimble Global Positioning System (GPS) receiver prior to covering with contaminated soil. Table 2 presents the BTEX and TPH analytical data summary. Table 3 presents the metals analytical data summary. Table 4 presents the cation and anion analytical data summary. Appendix B presents the laboratory reports.

4.3.1 Organic Sample Results

Vadose samples for BTEX, TPH and TRPH were collected from cells 1 through 6 during the first (February 24, 2016), second (April 14, 2016), third (August 4, 2016) and fourth (October 12, 2015) sampling events.

An additional sampling event was performed on June 16, 2015 to obtain missed samples from cell 2 for the second quarter. Vadose samples were not collected from cell 6 during the second, third and fourth quarter sampling events after treatment zone soil was removed from the cell during March 2015.

February 24, 2015 Sampling Event

The vadose zone sample results for February 24, 2015, from cells 1, 2, 3, 4, 5, and 6 were below the detection limit for the BTEX constituents.

TPH was 186 mg/Kg in the vadose sample from cell 5 during the February 24, 2015 sampling event. TPH was below the detection limit in all other samples.

TRPH was 20.9 mg/Kg and 333 mg/Kg in vadose samples from cells 1 and 5 during the February 24, 2015 sampling event and exceeded the mean background concentration (<4.90 mg/Kg). TRPH was below detection limits in all other samples.

April 14, 2015 Sampling Event

Sample results from cells 1, 2, 3, 4, and 5 during the second quarter (April 14, 2015) for BTEX, TPH, and TRPH were below the detection limits.

August 4, 2015 Sampling Event

Toluene ((0.0802 mg/Kg) and xylenes (0.207 mg/Kg) exceeded the mean background concentration (<0.00095 mg/Kg) in the vadose sample from cell 5.

TPH was 641 mg/Kg in the vadose sample from cell 5 during the August 4, 2016 sampling event.

October 12, 2015 Sampling Event

Ethylbenzene (0.366 mg/kg) and xylenes (2.17 mg/Kg) exceeded the mean background concentration (<0.00095 mg/kg) in the vadose sample from cell 1.

TPH was 3,500 mg/Kg in the vadose sample from cell 1 and 641 mg/Kg in cell 5 during the October 14, 2015 sampling event.

TRPH was 3,130 mg/Kg, 21.8 mg/Kg, and 16.0 mg/Kg in vadose samples from cells 1, 2, and 3 during the October 14, 2015 sampling event and exceeded the mean background concentration (<4.90 mg/Kg). LAI believes that the elevated levels of TPH are due to cross-contamination with the treatment zone during sampling.

4.3.2 Inorganic Sample Results

4.3.2.1 Metals Sample Results

Vadose sample for metals were collected during the second quarter (April 14, 2015). No vadose samples for metals were collected from cell 6 during 2015 after treatment zone soil was removed from the cell during March 2015.

Arsenic exceeded the mean background concentration (1.63 mg/Kg) in the vadose samples from cells 3 (2.50 mg/Kg), 4 (2.70 mg/Kg) and 5 (2.00 mg/Kg). Barium exceeded the mean background concentration

(21.0 mg/kg) in vadose samples from cells 2 (55.5 mg/Kg), 3 (33.0 mg/Kg), 4 (82.0 mg/Kg) and 5 (250 mg/kg).

Chromium exceeded the mean background concentration (4.81 mg/Kg) in vadose samples from cells 3 (6.2 mg/kg) and 4 (5.70 mg/Kg).

Lead exceeded the mean background concentration (2.87 mg/Kg) in the vadose samples from cells 3 (4.00 mg/Kg) and 4 (3.60 mg/Kg).

4.3.2.2 Anion Sample Results

Chloride was reported above the mean background concentration (<5.04 mg/Kg) in vadose zone samples for cells 1 through 6 during the first quarter (February 24, 2015) and cells 1, 3, 4, and 5 during the second (April 14, 2015) and fourth (October 12, 2015). Chloride was 379 mg/kg in the vadose sample from cell 5 during the third quarter (August 4, 2015). The methods reporting limit for chloride (<20.0 mg/Kg) was above the mean background concentration for samples from cells 1, 2, 3 and 4 during the third quarter (August 4, 2015).

5.0 SUMMARY

- BTEX was below the treatment zone closure performance standard in treatment zone samples during 2015;
- TPH was below the treatment performance closure standard (500 mg/kg) in treatment zone samples during 2015;
- TPH, metals, and chlorides remain above the permit and/or background mean levels in the cells requiring a continuation of the surface waste management plan.
- R360 will continue monthly tilling of cells 1, 2, 3, 4, and 5, treatment zone monitoring (cells 1, 3,4 and 5) and vadose zone monitoring (cells 1 through 5) and report results to OCD.
- The cell modification plans are still in progress at the time of this report.

Tables

Table 1
Treatment Zone Soil Analytical Data Summary
R360 Artesia LLC Landfarm (NM-1-030)
Lea County, New Mexico

| Cell | Date | Depth (feet) | Benzene (mg/Kg) | BTEX (mg/Kg) | GRO (mg/Kg) | DRO (mg/Kg) | ORO (mg/Kg) | TPH (mg/Kg) | TRPH (mg/Kg) | Chloride (mg/Kg) | |
|-------------------------|--|----------------------------------|--|---|---------------------------------|--------------------------|--------------------------|-----------------------------|------------------------|------------------------------|----------------------|
| Permitted Level: | | | 0.2 | 50 | | | | 500 | 2,500 | 1,000 | |
| 1 | 02/24/2015 04/14/2015 08/04/2015 10/12/2015 | 0 - 1 0 - 1 0 - 1 0 - 1 | * | * | <27.8 *** <50.0 | <27.8 *** <50.0 | <27.8 *** -- | <27.8 -- <50.0 | -- 16.0 | 198 1,100 97.8 | |
| 2 | 02/24/2015 04/14/2015 08/04/2015 10/12/2015 | 0 - 1 0 - 1 0 - 1 0 - 1 | <0.00625 * * * | <0.0187 * * * | -- * * * | -- * * * | -- * * * | 24.2 * * * | 37.0 * * * | | |
| 3 | 02/24/2015 04/14/2015 08/04/2015 10/12/2015 | 0 - 1 0 - 1 0 - 1 0 - 1 | * | * | <28.4 *** 51.9 | <28.4 *** -- | <28.4 *** -- | <28.4 139 | * 139 | * | 230 796 100 |
| 4 | 02/24/2015 04/14/2015 08/04/2015 10/12/2015 | 0 - 1 0 - 1 0 - 1 0 - 1 | * | * | <28.7 *** <50.0 | <28.7 *** -- | <28.7 *** -- | <28.7 <50.0 | -- 50.3 | * | 133 <20.0 48.1 |
| 5 | 02/24/2015 04/14/2015 08/04/2015 10/12/2015 | 0 - 1 0 - 1 0 - 1 0 - 1 | <0.00558 <0.00116 <0.0400 <0.0200 | <0.0167 <0.00233 <0.0400 <0.0200 | <0.203 <29.1 *** <50.0 | 388 -- -- <50.0 | -- <29.1 *** -- | 388 <29.1 -- <50.0 | 370 -- 17.9 | 144 1,070 3,790 426 | |
| 6 | 02/24/2015 04/14/2015 08/04/2015 10/12/2015 | 0 - 1 0 - 1 0 - 1 0 - 1 | <0.00491 ** ** ** | <0.0147 ** ** ** | <0.200 ** ** ** | 120 ** ** ** | -- ** ** ** | 120 ** ** ** | 57.7 ** ** ** | 282 ** ** ** | |

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX and Permian Basin Environmental Lab, Midland, Texas by EPA SW-846 methods 8021B (BTEX), 8015M (GRO and DRO), 418.1 (TRPH) and 300.0 (chloride)

*Cell approved for additional lift but no soil added to cell at the time of sample collection

**Soil removed from cell and placed as additiona layer on Cells 1, 3 and 4

***Analysis performed by method TX1005 (no GRO or ORO available)

1. <: Less than method detection limit

2. Depth in feet below treated soil layer

Results are reported in milligram per Kilograms (mg/Kg) equivalent to

parts per million (ppm)

Background analysis was performed by SW846 method 8260B

RL: Reporting limit (equivalent to practical quantification limit (PQL))

Table 2
Vadose Zone Soil BTEX and TPH Analytical Data Summary
R360 Artesia LLC Landfarm (NM-1-030)
Lee County, New Mexico

| Cell | Date | Depth (feet) | RL | Benzene (mg/Kg) | RL | Ethylbenzene (mg/Kg) | RL | Toluene (mg/Kg) | RL | Xylenes (mg/Kg) | RL | GRO (mg/Kg) | RL | DRO (mg/Kg) | RL | ORO (mg/Kg) | RL | TPH (mg/Kg) | RL | TRPH (mg/Kg) | RL | Chloride (mg/Kg) |
|---------------------------------|---|---|---|---|--|---|--|---|--|--|------------------------------------|------------------------------------|--------------------------------|------------------------------------|-------------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|------------------------------|-------------------------------|----------------------------|
| Background: Mean Concentration: | | | <0.00095 | | <0.00095 | | <0.00095 | | <0.00095 | | -- | | -- | | -- | | -- | | <4.90 | | <5.04 | |
| Background PQL or RL: | | | 0.005 | | 0.005 | | 0.005 | | 0.005 | | -- | | -- | | -- | | -- | | 10 | | 5.00 | |
| 1 | 02/24/2015 04/14/2015 08/04/2015 10/12/2015 | 2 - 3 2 - 3 2 - 3 2 - 3 | 0.00538 <0.00109 <0.0200 <0.0200 | <0.00538 <0.00109 <0.0200 <0.0200 | 0.0161 0.0161 0.0200 0.0200 | <0.0161 <0.0109 <0.0200 <0.0200 | 0.0161 0.00217 0.0200 0.0200 | <0.0161 0.00326 <0.0200 0.0200 | 0.0161 0.00326 <0.0200 0.0200 | 0.202 27.2 ** 4.00 | <0.202 27.2 ** 49.1 | 10.3 27.2 50.0 50.0 | <10.3 27.2 50.0 3,450 | -- -- -- -- | 10.3 27.2 50.0 50.0 | <10.3 27.2 50.0 50.0 | 10.6 100 -- 10.0 | <10.6 100 -- 3,150 | 5.15 1.09 4.00 25.0 | 7.90 5.78 <20.0 231 | | |
| 2 | 02/24/015 04/14/2015 06/16/2015 08/04/2015 10/12/2015 | 2 - 3 2 - 3 2 - 3 2 - 3 2 - 3 | 0.00624 -- 0.0200 0.0200 0.0200 | <0.00624 -- <0.0200 <0.0200 <0.0200 | 0.0187 -- 0.0200 0.0200 0.0200 | <0.0187 -- 0.0200 0.0200 0.0200 | 0.0187 -- 0.0200 0.0200 0.0200 | <0.0187 -- 0.0200 0.0200 0.0200 | 0.0187 -- 0.0200 0.0200 0.0200 | 0.246 -- 4.00 ** 4.00 | <0.246 -- 4.00 ** 4.00 | 12.7 -- 50.0 50.0 50.0 | <12.7 -- -- -- -- | 12.7 -- 50.0 50.0 50.0 | <12.7 -- <50.0 -- <50.0 | 12.9 -- 10.0 -- 10.0 | 20.9 -- <20.0 -- 21.8 | 6.40 -- 10.0 -- 25.0 | 33.2 -- 256 4.00 22.1 | | | |
| 3 | 02/24/015 04/14/2015 08/04/2015 10/12/2015 | 2 - 3 2 - 3 2 - 3 2 - 3 | 0.00543 0.00110 0.0400 0.0200 | <0.00543 <0.00110 <0.0400 <0.0200 | 0.0163 0.00110 0.0400 0.0200 | <0.0163 <0.00110 <0.0400 <0.0200 | 0.0163 0.00220 0.0400 0.0200 | <0.0163 0.00330 <0.0400 <0.0200 | 0.0163 0.00330 0.0400 0.0200 | 0.216 27.5 ** 4.00 | <0.216 27.5 ** 4.00 | 11.8 27.5 50.0 50.0 | <11.8 27.5 50.0 50.0 | -- 27.5 ** -- | -- 27.5 ** -- | 11.8 27.5 50.0 50.0 | <11.8 <27.5 <50.0 <50.0 | 12.0 100 -- 10.0 | <12.0 <100 -- 16.0 | 52.7 1.10 4.00 25.0 | 98.8 33.7 <20.0 39.7 | |
| 4 | 02/24/015 04/14/2015 08/04/2015 10/12/2015 | 2 - 3 2 - 3 2 - 3 2 - 3 | 0.00506 0.00110 0.0400 0.0200 | <0.00506 <0.00110 <0.0400 <0.0200 | 0.0152 0.00110 0.0400 0.0200 | <0.0152 <0.00110 <0.0400 <0.0200 | 0.0152 0.00220 0.0400 0.0200 | <0.0152 0.00330 <0.0400 <0.0200 | 0.0152 0.00330 0.0400 0.0200 | 0.196 27.5 ** 4.00 | <0.196 27.5 ** 4.00 | 9.73 27.5 50.0 50.0 | <9.73 27.5 50.0 50.0 | -- 27.5 ** -- | -- 27.5 ** -- | 9.73 27.5 50.0 50.0 | <9.73 27.5 50.0 <50.0 | 9.92 100 -- 10.0 | <9.92 158 -- <10 | 4.67 1.10 4.00 25.0 | 32.3 70.0 <20.0 173 | |
| 5 | 02/24/015 04/14/2015 08/04/2015 10/12/2015 | 2 - 3 2 - 3 2 - 3 2 - 3 | 0.00546 0.0016 0.0400 0.0200 | <0.00546 <0.00116 <0.0400 <0.0200 | 0.0164 0.0016 0.0400 0.0200 | <0.0164 <0.00116 <0.0400 <0.0200 | 0.0164 0.00233 0.0400 0.0200 | <0.0164 0.00233 0.0400 0.0200 | 0.0164 0.00339 0.0400 0.0200 | <0.0164 0.00339 0.0400 0.0200 | 0.205 29.1 ** 4.00 | <0.205 29.1 ** 4.00 | 10.9 29.1 50.0 50.0 | <10.9 29.1 50.0 50.0 | -- 29.1 ** -- | -- 29.1 ** -- | 10.9 29.1 50.0 7.41 | <10.9 29.1 50.0 <50.0 | 10.8 100 -- 10.0 | <9.92 100 -- <10.0 | 54.4 1.16 4.00 25.0 | 536 100 379 1,400 |
| 6 | 02/24/015 04/14/2015 08/04/2015 10/12/2015 | 2 - 3 2 - 3 2 - 3 2 - 3 | 0.00482 * * * | <0.00482 * * * | 0.0145 * * * | <0.0145 * * * | 0.0145 * * * | <0.0145 * * * | 0.0145 * * * | <0.0145 * * * | 0.193 * * * | <0.193 * * * | 10.1 27.2 50.0 50.0 | <10.1 27.2 50.0 50.0 | -- 27.2 50.0 50.0 | -- 27.2 50.0 50.0 | 10.1 27.2 50.0 7.41 | <10.1 27.2 50.0 <50.0 | 10.2 100 -- 10.0 | <10.2 100 -- <10.0 | 48.6 1.16 4.00 25.0 | 69.8 * * * |

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX, Permian Bain Environmental Lab, Midland, TX and Trace Analysis, Inc., Lubbock, TX

BTEX by EPA SW-846 method 8021B (BTEX)

TPH by EPA SW 846 method 8015M (GRO and DRO)

TRPH by EPA SW-846 method 418.1

Results are reported in milligram per Kilograms (mg/Kg).

RL: Reporting limit (equivalent to practical quantification limit (PQL))

--: No data available

Bold values indicates analyte was detected

Highlighted values indicate analyte was above mean background concentration

*No vadose samples collected after treatment zone soil removed from cell and placed as additiona layer on Cells 1, 3 and 4

**Analysis performed by method TX1005 (no GRO or ORO available)

1. <: Less than method reporting limit

2. Depth in feet below native ground surface

Table 3
Vadose Soil Metals Analytical Data Summary
R360 Artesia LLC Landfarm (NM1-30-0)
Lea County, New Mexico

| Cell | Date | Depth (feet) | RL | Arsenic (mg/Kg) | RL | Barium (mg/Kg) | RL | Cadmium (mg/Kg) | RL | Chromium (mg/Kg) | RL | Lead (mg/Kg) | RL | Mercury (mg/Kg) | RL | Selenium (mg/Kg) | RL | Silver (mg/Kg) |
|---------------------------------|--|------------------------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------|-----------------------------------|--------------------------------------|-------------------------------|------------------------------|----------------------------------|--------------------------------|---------------------------------------|--|----------------------------------|-----------------------------------|-----------------------------------|---|
| Background: Mean Concentration: | | | | 1.83 | | 21.0 | | <0.117 | | 4.81 | | 2.87 | | <0.016 | | 0.597 | | <0.099 |
| Background PQJ (RL): | | | | 0.983 - 0.995 | | 1.97 - 1.99 | | 0.298 - 0.295 | | 1.97 - 1.99 | | 0.295 - 0.298 | | 0.0373 - 0.0406 | | 0.491 - 0.497 | | 0.197 - 0.199 |
| 1 | 11/30/2012 03/26/2013 03/12/2014 04/04/2015 | 2 - 3 2 - 3 2 - 3 2 - 3 | 1.05 1.08 0.645 0.008 | 2.31 5.16 3.77 1.60 | 105 2.16 1.29 0.001 | 174 70.0 59.7 19.0 | 0.315 0.324 0.193 0.001 | <0.105 0.290 0.131 <0.001 | 2.10 2.16 1.29 0.091 | 5.53 13.7 12.9 3.50 | 0.315 0.324 0.193 0.011 | 2.82 7.65 5.60 2.50 | 0.0354 0.0406 0.0220 0.00025 | <0.0142 <0.0162 <0.00879 <0.00025 | 0.525 0.541 0.322 0.004 | 0.398 2.49 0.785 <0.004 | 0.210 0.216 0.129 0.005 | <0.105 <0.108 <0.0645 <0.005 |
| 2 | 11/30/2012 03/26/2013 03/12/2014 06/16/2015 | 2 - 3 2 - 3 2 - 3 2 - 3 | 1.03 1.01 1.10 0.568 | 3.67 4.46 4.65 <0.568 | 103 101 198 0.105 | 137 1,160 198 55.5 | 0.310 0.303 0.331 0.0303 | <0.103 0.246 0.133 <0.0303 | 2.07 2.02 2.21 0.118 | 8.23 7.73 6.37 4.14 | 0.310 0.303 0.331 0.140 | 3.83 3.76 3.05 <0.140 | 0.0371 0.0386 0.0434 0.00325 | <0.0149 <0.0154 <0.0174 <0.00325 | 0.517 0.504 0.552 0.451 | 0.455 1.32 0.581 <0.451 | 0.207 0.202 0.221 0.0356 | <0.103 <0.101 <0.110 <0.0356 |
| 3 | 11/30/2012 03/26/2013 03/12/2014 04/04/2015 | 2 - 3 2 - 3 2 - 3 2 - 3 | 0.896 0.989 0.662 0.008 | 1.65 2.95 4.40 2.50 | 1.79 1.98 132 0.001 | 40.7 49.3 1,120 33.0 | 0.269 0.297 0.199 0.001 | <0.0896 0.198 0.136 <0.001 | 1.79 1.98 1.32 0.091 | 5.88 8.91 4.87 6.20 | 0.269 0.297 0.199 0.011 | 2.88 5.29 2.21 4.00 | 0.0362 0.0367 0.0241 0.00025 | <0.0145 <0.0147 <0.00964 <0.00025 | 0.488 0.494 0.331 0.004 | 0.370 1.39 0.571 <0.004 | 0.179 0.198 0.132 0.005 | <0.0896 <0.0989 <0.662 <0.005 |
| 4 | 11/30/2012 03/26/2013 03/12/2014 04/04/2015 | 2 - 3 2 - 3 2 - 3 2 - 3 | 0.909 0.975 0.668 0.008 | 1.02 1.30 1.87 2.70 | 1.82 1.95 1.34 0.001 | 16.4 25.0 35.7 82.0 | 0.273 0.292 0.200 0.001 | <0.0909 0.127 0.0927 <0.001 | 1.82 1.95 1.34 0.091 | 4.21 4.56 7.36 5.70 | 0.273 0.292 0.200 0.011 | 2.08 4.36 4.47 3.60 | 0.0369 0.0403 0.0240 0.00025 | <0.0148 <0.0161 <0.00959 <0.00025 | 0.454 0.487 0.334 0.004 | 0.245 0.765 0.553 <0.004 | 0.182 0.195 0.134 0.005 | <0.0909 <0.0975 <0.0668 <0.005 |
| 5 | 11/30/2012 03/22/2013 03/12/2014 04/04/2015 | 2 - 3 2 - 3 2 - 3 2 - 3 | 1.05 0.927 1.19 0.008 | 1.94 1.20 3.98 2.00 | 105 1.85 2.38 0.001 | 605 20.9 198 250 | 0.314 0.278 0.357 0.001 | 0.181 0.102 0.195 <0.001 | 2.09 1.85 2.38 0.091 | 7.19 3.71 11.4 4.20 | 0.314 0.278 0.357 0.011 | 4.12 2.23 6.65 2.60 | 0.0383 0.0394 0.0472 0.00025 | <0.0153 <0.0158 0.0204 <0.00025 | 0.523 0.463 0.595 0.004 | 0.453 0.756 1.05 <0.004 | 0.209 0.185 0.238 0.005 | <0.105 <0.0927 <0.119 <0.005 |
| 6 | 11/30/2012 03/23/2013 03/12/2014 04/04/2015 | 2 - 3 2 - 2.7 2 - 3 2 - 3 | 0.873 0.940 1.18 * | 1.21 1.32 3.18 * | 1.75 1.88 2.35 * | 19.4 26.7 300 * | 0.262 0.282 0.353 * | <0.0873 <0.0940 0.120 * | 1.75 1.88 2.35 * | 4.02 4.03 6.61 * | 0.262 0.282 0.353 * | 2.15 2.17 3.24 * | 0.0341 0.0380 0.0228 * | <0.0136 <0.0152 <0.00913 * | 0.437 0.470 0.588 * | 0.276 0.610 0.626 * | 0.175 0.188 0.235 * | <0.0873 <0.094 <0.118 * |

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX and Permian Basin Environmental Lab, Midland, TX by EPA SW-846 6010B and 747.

Results are reported in milligram per kilogram (mg/Kg) equivalent to parts per million (ppm).

RL: Reporting limit (equivalent to practical quantification limit (PQL))

<: Not detected at method detection limit

-: No data available

*: Treated soil removed from cell therefore no vadose sample was collected.

Bold values indicate analyte was detected
Highlighted values indicate that analyte was above mean background concentration

Table 4
 Vadose Soil Anion and Cation Analytical Data Summary
 R360 Artesia LLC Landfarm (NM1-030)
 Lea County, New Mexico

| Cell | Sample Date | Depth (Feet) | RL | Calcium (mg/Kg) | RL | Magnesium (mg/Kg) | RL | Potassium (mg/Kg) | RL | Sodium (mg/Kg) | RL | Alkalinity (mg/Kg) | RL | Chloride (mg/Kg) | RL | Sulfate (mg/Kg) |
|--------------------|-------------|--------------|-------|-----------------|-------|-------------------|-------|-------------------|-------|----------------|------|--------------------|-------|------------------|------|-----------------|
| Background: | | | | | | | | | | | | | | | | |
| 1 | 11/19/2012 | 2 - 3 | 656 | 149,000 | 656 | 2,730 | 656 | 1,590 | 13.1 | 75.5 | 52.7 | 809 | 5.30 | 7.51 | 10.6 | 19.6 |
| | 06/13/2013 | 2 - 3 | 1,270 | 257,000 | 12.7 | 807 | 12.7 | 206 | 12.7 | 58.8 | 54.6 | 116 | 54.6 | 361 | 10.9 | 162 |
| | 03/12/2014 | 2 - 3 | 80.6 | 14,300 | 8.06 | 2,570 | 8.06 | 3,570 | 8.06 | 105 | 61.9 | 186 | 6.11 | 57.9 | 12.2 | 140 |
| | 04/14/2015 | 2 - 3 | 0.081 | 1,960 | 0.036 | 620 | 0.060 | 815 | 0.043 | 130 | 2.00 | 4,500 | 1.09 | 5.78 | 0.5 | 48.3 |
| 2 | 11/19/2012 | 2 - 3 | 647 | 127,000 | 647 | 3,920 | 647 | 2,430 | 647 | 906 | 54.7 | 1,130 | 5.46 | 59.9 | 10.9 | 320 |
| | 06/13/2013 | 2 - 3 | 1,340 | 163,000 | 13.4 | 696 | 13.4 | 319 | 13.4 | 103 | 56.7 | 5,080 | 5.60 | 100 | 11.2 | 424 |
| | 03/12/2014 | 2 - 3 | 690 | 208,000 | 13.8 | 4,300 | 13.8 | 1,540 | 13.8 | 525 | 56.1 | 1,310 | 5.20 | 124 | 10.4 | 392 |
| | 06/16/2015 | 2 - 3 | 10 | 20,000 | 10 | 1,060 | 10 | 890 | 10 | 122 | 20 | 530 | 25.00 | 256 | 25 | 165 |
| 3 | 11/19/2012 | 2 - 3 | 560 | 7,710 | 560 | 1,360 | 560 | 1,590 | 560 | 964 | 50.7 | 1,470 | 5.11 | 181 | 10.2 | 345 |
| | 06/13/2013 | 2 - 3 | 1,270 | 229,000 | 63.7 | 9,720 | 63.7 | 999 | 63.7 | 193 | 55.0 | 1,440 | 8.59 | 8.59 | 4.78 | 478 |
| | 03/12/2014 | 2 - 3 | 827 | 223,000 | 827 | 4,800 | 8.27 | 911 | 8.27 | 436 | 63.5 | 1,250 | 5.36 | 118 | 10.7 | 578 |
| | 04/14/2015 | 2 - 3 | 0.081 | 1,090 | 0.036 | 1,430 | 0.060 | 1,650 | 0.043 | 505 | 2.00 | 4,000 | 1.10 | 33.7 | 0.5 | 148 |
| 4 | 11/19/2012 | 2 - 3 | 11.4 | 525 | 11.4 | 814 | 11.4 | 1,020 | 11.4 | 75.0 | 50.3 | 71.0 | 5.09 | 72.1 | 10.2 | 77.6 |
| | 06/13/2013 | 2 - 3 | 12.5 | 889 | 12.5 | 921 | 12.5 | 1,250 | 12.5 | 22.3 | 50.7 | 53.2 | 5.06 | 103 | 10.1 | 29.9 |
| | 03/12/2014 | 2 - 3 | 83.5 | 12,400 | 83.5 | 1,980 | 83.5 | 1,400 | 8.35 | 210 | 64.7 | 116 | 5.53 | 87.7 | 111 | 1,340 |
| | 04/14/2015 | 2 - 3 | 0.081 | 35,200 | 0.036 | 6,920 | 0.060 | 1,650 | 0.043 | 198 | 2.00 | 4,000 | 1.10 | 70.0 | 0.5 | 158 |
| 5 | 11/19/2012 | 2 - 3 | 654 | 32,100 | 654 | 2,970 | 654 | 1,600 | 654 | 2,160 | 55.4 | 562 | 55.0 | 2,020 | 110 | 1,770 |
| | 06/13/2013 | 2 - 3 | 7.50 | 451 | 7.50 | 591 | 7.50 | 85 | 7.50 | 248 | 59.3 | 103 | 5.99 | 18.3 | 12.0 | 13.5 |
| | 03/12/2014 | 2 - 3 | 744 | 86,100 | 14.9 | 2,410 | 14.9 | 2,290 | 14.9 | 609 | 62.8 | 260 | 59.4 | 624 | 11.9 | 332 |
| | 04/14/2015 | 2 - 3 | 0.081 | 23,300 | 0.036 | 1,860 | 0.060 | 1,020 | 0.043 | 2,910 | 2.00 | 4,500 | 1.16 | 100 | 0.5 | 62.8 |
| 6 | 11/19/2012 | 2 - 3 | 546 | 668 | 546 | 663 | 546 | 884 | 546 | 23.6 | 50.4 | 84.7 | 5.09 | 58.9 | 10.2 | 22.5 |
| | 06/13/2013 | 2 - 3 | 12.2 | 889 | 12.2 | 579 | 12.2 | 822 | 12.2 | 37.1 | 51.4 | 189 | 5.11 | 13.8 | 10.2 | <10.2 |
| | 03/12/2014 | 2 - 3 | 735 | 102,000 | 14.7 | 2,270 | 14.7 | 1,510 | 14.7 | 420 | 62.2 | 275 | 5.49 | 256 | 11.0 | 166 |
| | 04/14/2015 | 2 - 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

Notes: Analysis performed by DHL Analytical, Round Rock, Texas and Trace Analysis, Inc., Lubbock, Texas by EPA SW-846 methods 6010B, 300.0 and 310.0

Results are reported in milligram per kilogram (mg/Kg) equivalent to parts per million (ppm).

RL: Reporting limit (equivalent to practical quantification limit (PQL))

<: Not detected at method RL

- No data available

Bold values Indicate analyte was detected

Highlighted values Indicate that analyte was above mean background concentration

Figures



Figure 1 - Topographic Map



850 0 850
Graphic Scale in Feet

R-360 Environmental

32°51'06.78"N
103°48'16.35"W

Larson & Associates, Inc.
Environmental Consultants

Figure 2 Aerial

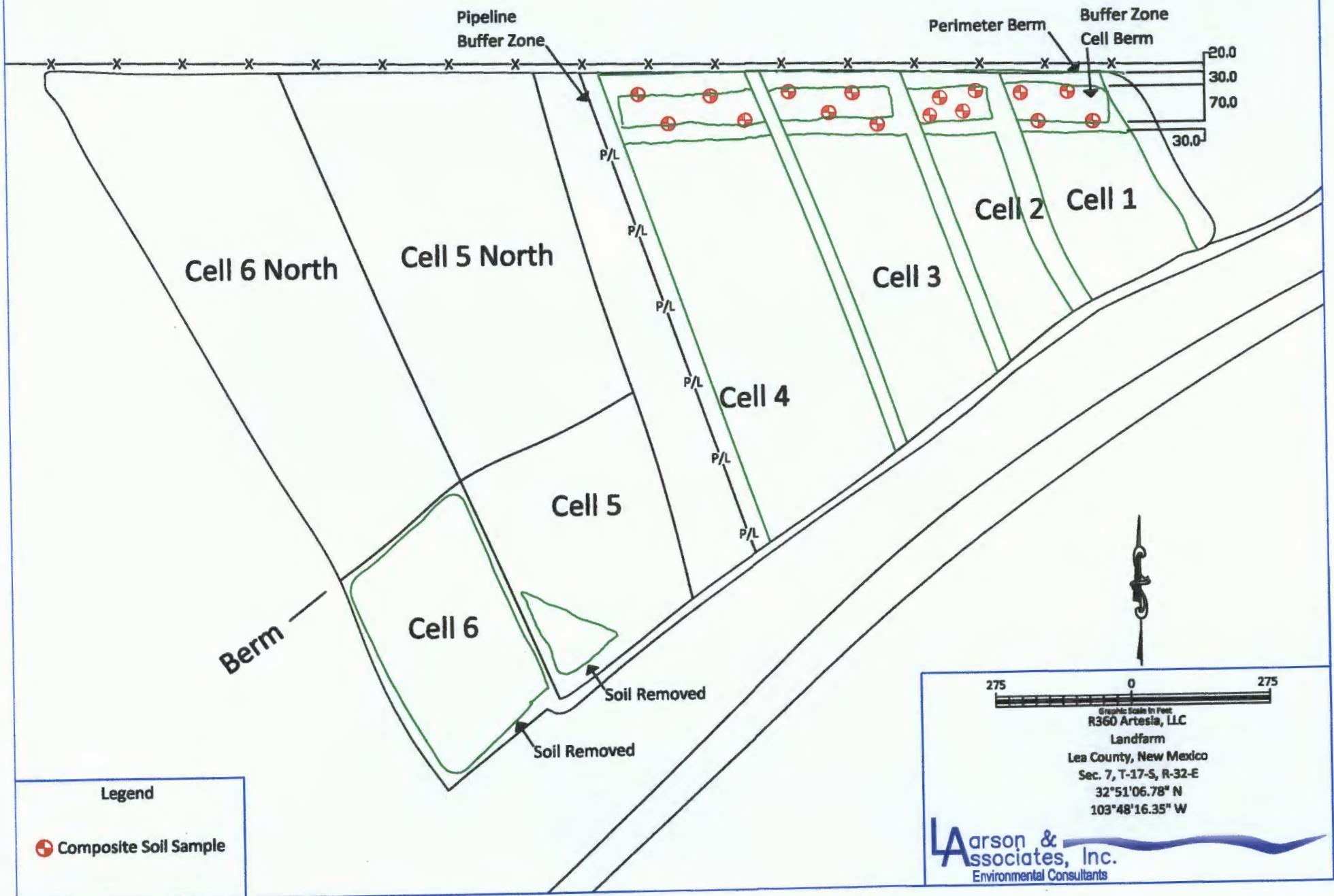


Figure 3 - Remediation Area Map

Appendix A

**State of New Mexico
Energy, Minerals and Natural Resources Department**

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



November 24, 2014

Wayne Crawley
R360 Environmental Solutions, LLC
3 Waterway Square Place, Suite 110
The Woodlands, Texas 77380

RE: Request for Approval of Plan 1 – Berm and Buffer Plan
Permit NM1 – 030: Commercial Surface Waste Management Facility
R360 Artesia, LLC – R360 Artesia, LLC Landfarm
Facility Location: Unit A of Section 7, Township 17 South, Range 32 East NMPM
Lea County, New Mexico

Dear Mr. Crawley:

The Oil Conservation Division (OCD) has completed the review of Larson & Associates, Inc.'s email request Plan 1, dated November 19, 2014 and submitted on the behalf of R360 Artesia, LLC, which proposes to relocate contaminated soils out of the 100 ft. buffer area, install temporary cells berms, assess the vadose zone within the exposed buffer area, and the installation of permanent cells berms.

Based on the information provided in the request, Plan 1 is hereby approved with the following understandings and conditions:

1. R360 Artesia, LLC shall comply with all applicable requirements of the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), all conditions specified in this approval, and shall operate in accordance with the November 19, 2014 submittal;
2. R360 Artesia, LLC shall compare vadose zone monitoring results to the background results or PQL (whichever is higher) in order to determine if a release had occurred and if additional follow-up actions of 19.15.36.15.E.(5) NMAC are required to be completed; and
3. R360 Artesia, LLC shall obtain written approval from OCD prior to implementing any changes to the November 19, 2014 plan.

Please be advised that approval of this request does not relieve R360 Artesia, LLC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve R360 Artesia, LLC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

R360 Artesia, LLC

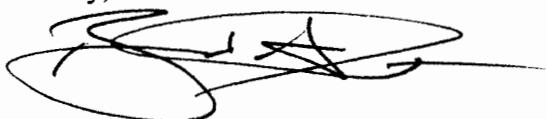
Permit NM1-030

November 24, 2014

Page 2 of 2

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,



Brad A. Jones
Environmental Engineer

BAJ/baj

Cc: OCD District I Office, Hobbs
Mark Larson, Larson & Associates, Inc., 507 North Marienfeld, Suite 200, Midland, TX
79701

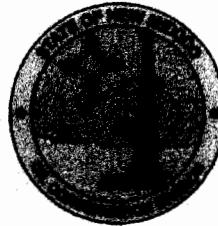
**State of New Mexico
Energy, Minerals and Natural Resources Department**

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



October 21, 2014

Wayne Crawley
R360 Environmental Solutions, LLC
3 Waterway Square Place, Suite 110
The Woodlands, Texas 77380

RE: Request for Approval to Apply a Successive Lift
Permit NM1 – 030: Commercial Surface Waste Management Facility
R360 Artesia, LLC – R360 Artesia, LLC Landfarm
Facility Location: Unit A of Section 7, Township 17 South, Range 32 East NMPM
Lea County, New Mexico

Dear Mr. Crawley:

The Oil Conservation Division (OCD) has received and reviewed Larson & Associates, Inc.'s email request, dated October 20, 2014 and submitted on the behalf of R360 Artesia, LLC to grant approval to apply an additional six-inch lift to the following cell(s): Cell 1.

Based upon the analytical results provided, OCD hereby grants R360 Artesia, LLC approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Also, please note that with the addition of successive lifts R360 Artesia, LLC must initiate tilling and treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve R360 Artesia, LLC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve R360 Artesia, LLC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

Cc: OCD District I Office, Hobbs
 Mark Larson, Larson & Associates, Inc., 507 North Marienfeld, Suite 200, Midland, TX 79701

**State of New Mexico
Energy, Minerals and Natural Resources Department**

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David Catanach, Division Director
Oil Conservation Division



March 23, 2015

Wayne Crawley
R360 Environmental Solutions, LLC
3 Waterway Square Place, Suite 110
The Woodlands, Texas 77380

RE: Request for Approval to Apply a Successive Lift
Permit NM1 – 030: Commercial Surface Waste Management Facility
R360 Artesia, LLC – R360 Artesia, LLC Landfarm
Facility Location: Unit A of Section 7, Township 17 South, Range 32 East NMPM
Lea County, New Mexico

Dear Mr. Crawley:

The Oil Conservation Division (OCD) has received and reviewed Larson & Associates, Inc.'s email request, dated March 20, 2015 and submitted on the behalf of R360 Artesia, LLC to grant approval to apply an additional six-inch lift to the following cell(s): **Cell 2**.

Based on the information and data provided in the request, OCD hereby grants R360 Artesia, LLC approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s) with the following understandings and conditions:

1. R360 Artesia, LLC must initiate tilling, treatment zone monitoring, and resume vadose zone monitoring with the addition of successive lifts. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.
2. R360 Artesia, LLC shall comply with all applicable requirements of the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), all conditions specified in this approval, and shall operate in accordance with the November 19, 2014 Plan 1 submittal;
3. R360 Artesia, LLC shall compare vadose zone monitoring results to the background results or PQL (whichever is higher) in order to determine if a release had occurred and if additional follow-up actions of 19.15.36.15.E.(5) NMAC are required to be completed; and
4. R360 Artesia, LLC shall obtain written approval from OCD prior to implementing any changes to the November 19, 2014 Plan 1 submittal.

R360 Artesia, LLC

Permit NM1-030

March 23, 2015

Page 2 of 2

Please be advised that approval of this request does not relieve R360 Artesia, LLC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve R360 Artesia, LLC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,



Brad A. Jones
Environmental Engineer

BAJ/baj

Cc: OCD District I Office, Hobbs

Mark Larson, Larson & Associates, Inc., 507 North Marienfeld, Suite 200, Midland, TX
79701

**State of New Mexico
Energy, Minerals and Natural Resources Department**

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David Catanach, Division Director
Oil Conservation Division



January 14, 2015

Wayne Crawley
R360 Environmental Solutions, LLC
3 Waterway Square Place, Suite 110
The Woodlands, Texas 77380

RE: Request for Approval to Apply a Successive Lift
Permit NM1 – 030: Commercial Surface Waste Management Facility
R360 Artesia, LLC – R360 Artesia, LLC Landfarm
Facility Location: Unit A of Section 7, Township 17 South, Range 32 East NMPM
Lea County, New Mexico

Dear Mr. Crawley:

The Oil Conservation Division (OCD) has received and reviewed Larson & Associates, Inc.'s email request, dated January 10, 2015 and submitted on the behalf of R360 Artesia, LLC to grant approval to apply an additional six-inch lift to the following cell(s): **Cell 3**.

Based on the information and data provided in the request, OCD hereby grants R360 Artesia, LLC approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s) with the following understandings and conditions:

1. R360 Artesia, LLC must initiate tilling, treatment zone monitoring, and resume vadose zone monitoring with the addition of successive lifts. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.
2. R360 Artesia, LLC shall comply with all applicable requirements of the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), all conditions specified in this approval, and shall operate in accordance with the November 19, 2014 Plan 1 submittal;
3. R360 Artesia, LLC shall compare vadose zone monitoring results to the background results or PQL (whichever is higher) in order to determine if a release had occurred and if additional follow-up actions of 19.15.36.15.E.(5) NMAC are required to be completed; and
4. R360 Artesia, LLC shall obtain written approval from OCD prior to implementing any changes to the November 19, 2014 Plan 1 submittal.

R360 Artesia, LLC
Permit NM1-030
January 14, 2015
Page 2 of 2

Please be advised that approval of this request does not relieve R360 Artesia, LLC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve R360 Artesia, LLC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,



Brad A. Jones
Environmental Engineer

BAJ/baj

Cc: OCD District I Office, Hobbs
Mark Larson, Larson & Associates, Inc., 507 North Marienfeld, Suite 200, Midland, TX
79701

**State of New Mexico
Energy, Minerals and Natural Resources Department**

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



September 2, 2014

Mark J. Larson
Larson & Associates, Inc.
507 North Marienfeld, Suite 200
Midland, Texas 79701

RE: Request for Approval to Apply a Successive Lift
Permit NM1 - 030: Commercial Surface Waste Management Facility
R360 Artesia, LLC - R360 Artesia, LLC Landfarm
Facility Location: Unit A of Section 7, Township 17 South, Range 32 East NMPM
Lea County, New Mexico

Dear Mr. Larson

The Oil Conservation Division (OCD) has received and reviewed Larson & Associates, Inc.'s email request, dated August 29, 2014 and submitted on the behalf of R360 Artesia, LLC to grant approval to apply an additional six-inch lift to the following cell(s): Cell 4.

Based upon the analytical results provided, OCD hereby grants R360 Artesia, LLC approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Also, please note that with the addition of successive lifts R360 Artesia, LLC must initiate tilling and treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve R360 Artesia, LLC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve R360 Artesia, LLC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

A handwritten signature in black ink.

Brad A. Jones
Environmental Engineer

BAJ/baj

Cc: OCD District I Office, Hobbs
 Wayne Crawley, R360 Environmental Solutions, LLC, The Woodlands, TX 77380

Appendix B



March 20, 2015

Mark Larson
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701

TEL: (432) 687-0901
FAX (432) 687-0456
RE: R360 Landfarm

Order No.: 1502214

Dear Mark Larson:

DHL Analytical, Inc. received 9 sample(s) on 2/26/2015 for the analyses presented in the following report.

REVISION#1 This revision consists of correcting the target compounds as per the client request.
Please replace the original report with this revised report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-14-13



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| Analytical Report 1502214 | 14 |
| AnalyticalQCSummaryReport 1502214 | 23 |

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 2/25/15 PAGE 1 OF 1
PO #: LAB WORK ORDER #: 1502214
PROJECT LOCATION OR NAME: R360 Land Farm
LAI PROJECT #: 15-0121-01 COLLECTOR: S

Data Reported to

Goto



WWW.LSO.COM
Questions? Call 800-800-8984

Airbill No. 48852755

48852755

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2AC

2AD

2AE

1. To:

Print Name (Person)

Phone (Important)

Company Name

DHL

Street Address (No P.O. Box or P.O. Box Zip Code/Deliveries)

300 Double Creek

Suite / Floor

City

State

Zip

3. Service:

Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online.

LSO Priority Overnight*

By 10:30 a.m. to most cities

LSO Early Overnight*

By 6:30 a.m. select cities

LSO Economy Next Day*

By 3 p.m. to most cities

LSO 2nd Day*

LSO Ground

LSO Saturday*

Other _____

*Check commitment times and availability at www.lso.com

Assumed LSO Priority Overnight service unless otherwise noted.

Deliver Without Delivery Signature (See Limits of Liability below)

Release Signature

x W x H

LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not to exceed \$25,000); 2) pay an additional fee; 3) document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR LSO EARLY OVERNIGHT SERVICE. PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON LSO GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.

2. From:

Print Name (Person)

Phone (Important)

Company Name

LARSON & ASSOCIATES, INC.

Street Address

507 N. MARTINFIELD ST.

Suite / Floor

City

State

Zip

4. Package:

Weight:

50

Your Company's Billing Reference Information

15-0121-01

Ship Date: (mm/dd/yy)

2 '25 '15

5. Payment:

FOR DRIVER
USE ONLY

Driver Number 3484

Check here if LSO Supplies

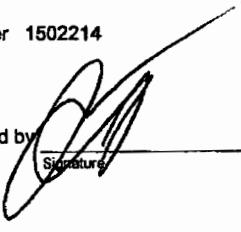
are used with LSO Ground Service.

Pick-up Location 100A

Date: 2-25-15

Time: 1535

City Code: A65

DHL Analytical, Inc.**Sample Receipt Checklist**Client Name **Larson & Associates**Date Received: **2/26/2015**Work Order Number **1502214**Received by **MB**Checklist completed by 

2/26/2015

Reviewed by 

2/26/2015

Signature

Date

Initials

Date

Carrier name **Hand Delivered**

| | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 5.3 °C |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH<2 acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # |
| | Adjusted? | | Checked by _____ |
| Water - pH>9 (S) or pH>12 (CN) acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # |
| | Adjusted? | | Checked by _____ |

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: Larson & Associates
Project: R360 Landfarm
Lab Order: 1502214

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method M8015D - DRO Analysis
Method M8015V - GRO Analysis
Method SW8021B - Volatile Organics by GC Analysis
Method E300 - Anions Analysis
Method E418.1 - Total Petroleum Hydrocarbons Analysis (Parameter not NELAC Certified)
Method D2216 - Percent Moisture Analysis

LOG IN

The samples were received and log-in performed on 2/26/2015. A total of 9 samples were received and analyzed. The samples arrived in good condition and were properly packaged. The samples were collected in Mountain Standard Time.

ANIONS ANALYSIS

For Anions Analysis, the recovery of Chloride for the Matrix Spike and the RPD of the Matrix Spike Duplicate (1502214-09 MS/MSD) were above the method control limits. These are flagged accordingly in the QC Summary Report. This anion was within method control limits in the associated LCS. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. No further corrective actions were taken.

BTEX AND GRO ANALYSIS

As per the TCEQ-NELAP accreditation requirement the following must be noted: NELAP requires a note that if 5035 sampling method for VOCs and GRO is not utilized, the results of samples collected in bulk containers for low level volatile components may be compromised. The client has been notified and has requested the Laboratory to proceed with analysis.

CLIENT: Larson & Associates
Project: R360 Landfarm
Lab Order: 1502214

Work Order Sample Summary

| Lab Smp ID | Client Sample ID | Tag Number | Date Collected | Date Recved |
|-------------------|-------------------------|-------------------|-----------------------|--------------------|
| 1502214-01 | Cell 1 (2-3) | | 02/24/15 01:00 PM | 2/26/2015 |
| 1502214-02 | Cell 2 (2-3) | | 02/24/15 02:00 PM | 2/26/2015 |
| 1502214-03 | Cell 2 (0-1') | | 02/24/15 02:30 PM | 2/26/2015 |
| 1502214-04 | Cell 3 (2-3) | | 02/24/15 03:00 PM | 2/26/2015 |
| 1502214-05 | Cell 4 (2-3) | | 02/24/15 04:00 PM | 2/26/2015 |
| 1502214-06 | Cell 5 (2-3) | | 02/24/15 05:00 PM | 2/26/2015 |
| 1502214-07 | Cell 5 (0-1') | | 02/24/15 05:30 PM | 2/26/2015 |
| 1502214-08 | Cell 6 (2-3) | | 02/24/15 06:00 PM | 2/26/2015 |
| 1502214-09 | Cell 6 (0-1') | | 02/24/15 06:30 PM | 2/26/2015 |

Lab Order: 1502214
Client: Larson & Associates
Project: R360 Landfarm

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|------------------------------|-------------------|----------|
| 1502214-01A | Cell 1 (2-3) | 02/24/15 01:00 PM | Soil | E300 | Anion Prep | 03/02/15 09:09 AM | 68435 |
| | Cell 1 (2-3) | 02/24/15 01:00 PM | Soil | D2216 | Moisture Preparation | 02/27/15 03:57 PM | 68428 |
| | Cell 1 (2-3) | 02/24/15 01:00 PM | Soil | SW5030A | Purge and Trap Soils GC | 03/02/15 09:50 AM | 68439 |
| | Cell 1 (2-3) | 02/24/15 01:00 PM | Soil | SW5030A | Purge and Trap Soils GC- Gas | 03/03/15 09:47 AM | 68460 |
| | Cell 1 (2-3) | 02/24/15 01:00 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |
| | Cell 1 (2-3) | 02/24/15 01:00 PM | Soil | SW3550B | Soil Prep Sonication: TRPH | 03/04/15 09:34 AM | 68486 |
| 1502214-02A | Cell 2 (2-3) | 02/24/15 02:00 PM | Soil | E300 | Anion Prep | 03/02/15 09:09 AM | 68435 |
| | Cell 2 (2-3) | 02/24/15 02:00 PM | Soil | D2216 | Moisture Preparation | 02/27/15 03:57 PM | 68428 |
| | Cell 2 (2-3) | 02/24/15 02:00 PM | Soil | SW5030A | Purge and Trap Soils GC | 03/02/15 09:50 AM | 68439 |
| | Cell 2 (2-3) | 02/24/15 02:00 PM | Soil | SW5030A | Purge and Trap Soils GC- Gas | 03/03/15 09:47 AM | 68460 |
| | Cell 2 (2-3) | 02/24/15 02:00 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |
| | Cell 2 (2-3) | 02/24/15 02:00 PM | Soil | SW3550B | Soil Prep Sonication: TRPH | 03/04/15 09:34 AM | 68486 |
| 1502214-03A | Cell 2 (0-1') | 02/24/15 02:30 PM | Soil | E300 | Anion Prep | 03/02/15 09:09 AM | 68435 |
| | Cell 2 (0-1') | 02/24/15 02:30 PM | Soil | D2216 | Moisture Preparation | 02/27/15 03:57 PM | 68428 |
| | Cell 2 (0-1') | 02/24/15 02:30 PM | Soil | SW5030A | Purge and Trap Soils GC | 03/02/15 09:50 AM | 68439 |
| | Cell 2 (0-1') | 02/24/15 02:30 PM | Soil | SW5030A | Purge and Trap Soils GC- Gas | 03/03/15 09:47 AM | 68460 |
| | Cell 2 (0-1') | 02/24/15 02:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |
| | Cell 2 (0-1') | 02/24/15 02:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |
| 1502214-04A | Cell 3 (2-3) | 02/24/15 03:00 PM | Soil | E300 | Anion Prep | 03/02/15 09:09 AM | 68435 |
| | Cell 3 (2-3) | 02/24/15 03:00 PM | Soil | D2216 | Moisture Preparation | 02/27/15 03:57 PM | 68428 |
| | Cell 3 (2-3) | 02/24/15 03:00 PM | Soil | SW5030A | Purge and Trap Soils GC | 03/02/15 09:50 AM | 68439 |
| | Cell 3 (2-3) | 02/24/15 03:00 PM | Soil | SW5030A | Purge and Trap Soils GC- Gas | 03/03/15 09:47 AM | 68460 |
| | Cell 3 (2-3) | 02/24/15 03:00 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |
| | Cell 3 (2-3) | 02/24/15 03:00 PM | Soil | SW3550B | Soil Prep Sonication: TRPH | 03/04/15 09:34 AM | 68486 |
| 1502214-05A | Cell 4 (2-3) | 02/24/15 04:00 PM | Soil | E300 | Anion Prep | 03/02/15 09:09 AM | 68435 |
| | Cell 4 (2-3) | 02/24/15 04:00 PM | Soil | D2216 | Moisture Preparation | 02/27/15 03:57 PM | 68428 |
| | Cell 4 (2-3) | 02/24/15 04:00 PM | Soil | SW5030A | Purge and Trap Soils GC | 03/02/15 09:50 AM | 68439 |

Lab Order: 1502214
Client: Larson & Associates
Project: R360 Landfarm

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|------------------------------|-------------------|----------|
| 1502214-05A | Cell 4 (2-3) | 02/24/15 04:00 PM | Soil | SW5030A | Purge and Trap Soils GC- Gas | 03/03/15 09:47 AM | 68460 |
| | Cell 4 (2-3) | 02/24/15 04:00 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |
| | Cell 4 (2-3) | 02/24/15 04:00 PM | Soil | SW3550B | Soil Prep Sonication: TRPH | 03/04/15 09:34 AM | 68486 |
| 1502214-06A | Cell 5 (2-3) | 02/24/15 05:00 PM | Soil | E300 | Anion Prep | 03/02/15 09:09 AM | 68435 |
| | Cell 5 (2-3) | 02/24/15 05:00 PM | Soil | D2216 | Moisture Preparation | 02/27/15 03:57 PM | 68428 |
| | Cell 5 (2-3) | 02/24/15 05:00 PM | Soil | SW5030A | Purge and Trap Soils GC | 03/02/15 09:50 AM | 68439 |
| | Cell 5 (2-3) | 02/24/15 05:00 PM | Soil | SW5030A | Purge and Trap Soils GC- Gas | 03/03/15 09:47 AM | 68460 |
| | Cell 5 (2-3) | 02/24/15 05:00 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |
| | Cell 5 (2-3) | 02/24/15 05:00 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |
| | Cell 5 (2-3) | 02/24/15 05:00 PM | Soil | SW3550B | Soil Prep Sonication: TRPH | 03/04/15 09:34 AM | 68486 |
| 1502214-07A | Cell 5 (0-1') | 02/24/15 05:30 PM | Soil | E300 | Anion Prep | 03/02/15 09:09 AM | 68435 |
| | Cell 5 (0-1') | 02/24/15 05:30 PM | Soil | D2216 | Moisture Preparation | 02/27/15 03:57 PM | 68428 |
| | Cell 5 (0-1') | 02/24/15 05:30 PM | Soil | SW5030A | Purge and Trap Soils GC | 03/02/15 09:50 AM | 68439 |
| | Cell 5 (0-1') | 02/24/15 05:30 PM | Soil | SW5030A | Purge and Trap Soils GC- Gas | 03/03/15 09:47 AM | 68460 |
| | Cell 5 (0-1') | 02/24/15 05:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |
| | Cell 5 (0-1') | 02/24/15 05:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |
| | Cell 5 (0-1') | 02/24/15 05:30 PM | Soil | SW3550B | Soil Prep Sonication: TRPH | 03/04/15 09:34 AM | 68486 |
| 1502214-08A | Cell 6 (2-3) | 02/24/15 06:00 PM | Soil | E300 | Anion Prep | 03/02/15 09:09 AM | 68435 |
| | Cell 6 (2-3) | 02/24/15 06:00 PM | Soil | D2216 | Moisture Preparation | 02/27/15 03:57 PM | 68428 |
| | Cell 6 (2-3) | 02/24/15 06:00 PM | Soil | SW5030A | Purge and Trap Soils GC | 03/02/15 09:50 AM | 68439 |
| | Cell 6 (2-3) | 02/24/15 06:00 PM | Soil | SW5030A | Purge and Trap Soils GC- Gas | 03/03/15 09:47 AM | 68460 |
| | Cell 6 (2-3) | 02/24/15 06:00 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |
| | Cell 6 (2-3) | 02/24/15 06:00 PM | Soil | SW3550B | Soil Prep Sonication: TRPH | 03/04/15 09:34 AM | 68486 |
| | Cell 6 (0-1') | 02/24/15 06:30 PM | Soil | E300 | Anion Prep | 03/02/15 09:09 AM | 68435 |
| 1502214-09A | Cell 6 (0-1') | 02/24/15 06:30 PM | Soil | D2216 | Moisture Preparation | 02/27/15 03:57 PM | 68428 |
| | Cell 6 (0-1') | 02/24/15 06:30 PM | Soil | SW5030A | Purge and Trap Soils GC | 03/02/15 09:50 AM | 68439 |
| | Cell 6 (0-1') | 02/24/15 06:30 PM | Soil | SW5030A | Purge and Trap Soils GC- Gas | 03/03/15 09:47 AM | 68460 |
| | Cell 6 (0-1') | 02/24/15 06:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |
| | Cell 6 (0-1') | 02/24/15 06:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |

Lab Order: 1502214
Client: Larson & Associates
Project: R360 Landfarm

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|----------------------------|-------------------|----------|
| 1502214-09A | Cell 6 (0-1') | 02/24/15 06:30 PM | Soil | SW3550C | Soil Prep Sonication: DRO | 02/27/15 09:37 AM | 68424 |
| | Cell 6 (0-1') | 02/24/15 06:30 PM | Soil | SW3550B | Soil Prep Sonication: TRPH | 03/04/15 09:34 AM | 68486 |

Lab Order: 1502214
Client: Larson & Associates
Project: R360 Landfarm

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|------------------------------|----------|----------|-------------------|----------------|
| 1502214-01A | Cell 1 (2-3) | Soil | E300 | Anions by IC method - Soil | 68435 | 1 | 03/02/15 10:44 AM | IC2_150302A |
| | Cell 1 (2-3) | Soil | D2216 | Percent Moisture | 68428 | 1 | 03/02/15 08:50 AM | PMOIST_150227A |
| | Cell 1 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 68424 | 1 | 03/02/15 11:00 AM | GC15_150302A |
| | Cell 1 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 68460 | 1 | 03/03/15 12:00 PM | GC4_150303A |
| | Cell 1 (2-3) | Soil | E418.1 | TRPH | 68486 | 1 | 03/04/15 03:05 PM | IR207_150304A |
| | Cell 1 (2-3) | Soil | SW8021B | Volatile Organics by GC | 68439 | 1 | 03/02/15 11:49 AM | GC4_150302A |
| 1502214-02A | Cell 2 (2-3) | Soil | E300 | Anions by IC method - Soil | 68435 | 1 | 03/02/15 10:59 AM | IC2_150302A |
| | Cell 2 (2-3) | Soil | D2216 | Percent Moisture | 68428 | 1 | 03/02/15 08:50 AM | PMOIST_150227A |
| | Cell 2 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 68424 | 1 | 03/02/15 11:09 AM | GC15_150302A |
| | Cell 2 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 68460 | 1 | 03/03/15 12:25 PM | GC4_150303A |
| | Cell 2 (2-3) | Soil | E418.1 | TRPH | 68486 | 1 | 03/04/15 03:05 PM | IR207_150304A |
| | Cell 2 (2-3) | Soil | SW8021B | Volatile Organics by GC | 68439 | 1 | 03/02/15 12:14 PM | GC4_150302A |
| 1502214-03A | Cell 2 (0-1') | Soil | E300 | Anions by IC method - Soil | 68435 | 1 | 03/02/15 11:13 AM | IC2_150302A |
| | Cell 2 (0-1') | Soil | D2216 | Percent Moisture | 68428 | 1 | 03/02/15 08:50 AM | PMOIST_150227A |
| | Cell 2 (0-1') | Soil | M8015D | TPH Extractable by GC - Soil | 68424 | 10 | 03/02/15 11:18 AM | GC15_150302A |
| | Cell 2 (0-1') | Soil | M8015D | TPH Extractable by GC - Soil | 68424 | 1 | 03/02/15 12:48 PM | GC15_150302A |
| | Cell 2 (0-1') | Soil | M8015V | TPH Purgeable by GC - Soil | 68460 | 1 | 03/03/15 12:49 PM | GC4_150303A |
| | Cell 2 (0-1') | Soil | E418.1 | TRPH | 68486 | 1 | 03/04/15 03:05 PM | IR207_150304A |
| 1502214-04A | Cell 3 (2-3) | Soil | E300 | Anions by IC method - Soil | 68435 | 10 | 03/02/15 11:32 AM | IC2_150302A |
| | Cell 3 (2-3) | Soil | D2216 | Percent Moisture | 68428 | 1 | 03/02/15 08:50 AM | PMOIST_150227A |
| | Cell 3 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 68424 | 1 | 03/02/15 11:27 AM | GC15_150302A |
| | Cell 3 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 68460 | 1 | 03/03/15 01:13 PM | GC4_150303A |
| | Cell 3 (2-3) | Soil | E418.1 | TRPH | 68486 | 1 | 03/04/15 03:05 PM | IR207_150304A |
| | Cell 3 (2-3) | Soil | SW8021B | Volatile Organics by GC | 68439 | 1 | 03/02/15 01:05 PM | GC4_150302A |
| 1502214-05A | Cell 4 (2-3) | Soil | E300 | Anions by IC method - Soil | 68435 | 1 | 03/02/15 01:21 PM | IC2_150302A |
| | Cell 4 (2-3) | Soil | D2216 | Percent Moisture | 68428 | 1 | 03/02/15 08:50 AM | PMOIST_150227A |
| | Cell 4 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 68424 | 1 | 03/02/15 11:36 AM | GC15_150302A |

Lab Order: 1502214
Client: Larson & Associates
Project: R360 Landfarm

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|------------------------------|----------|----------|-------------------|----------------|
| 1502214-05A | Cell 4 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 68460 | 1 | 03/03/15 01:37 PM | GC4_150303A |
| | Cell 4 (2-3) | Soil | E418.1 | TRPH | 68486 | 1 | 03/04/15 03:05 PM | IR207_150304A |
| | Cell 4 (2-3) | Soil | SW8021B | Volatile Organics by GC | 68439 | 1 | 03/02/15 01:30 PM | GC4_150302A |
| 1502214-06A | Cell 5 (2-3) | Soil | E300 | Anions by IC method - Soil | 68435 | 10 | 03/02/15 01:35 PM | IC2_150302A |
| | Cell 5 (2-3) | Soil | D2216 | Percent Moisture | 68428 | 1 | 03/02/15 08:50 AM | PMOIST_150227A |
| | Cell 5 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 68424 | 10 | 03/02/15 11:45 AM | GC15_150302A |
| | Cell 5 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 68424 | 1 | 03/02/15 12:57 PM | GC15_150302A |
| | Cell 5 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 68460 | 1 | 03/03/15 02:02 PM | GC4_150303A |
| | Cell 5 (2-3) | Soil | E418.1 | TRPH | 68486 | 1 | 03/04/15 03:05 PM | IR207_150304A |
| | Cell 5 (2-3) | Soil | SW8021B | Volatile Organics by GC | 68439 | 1 | 03/02/15 01:55 PM | GC4_150302A |
| 1502214-07A | Cell 5 (0-1') | Soil | E300 | Anions by IC method - Soil | 68435 | 1 | 03/02/15 12:16 PM | IC2_150302A |
| | Cell 5 (0-1') | Soil | D2216 | Percent Moisture | 68428 | 1 | 03/02/15 08:50 AM | PMOIST_150227A |
| | Cell 5 (0-1') | Soil | M8015D | TPH Extractable by GC - Soil | 68424 | 10 | 03/02/15 11:54 AM | GC15_150302A |
| | Cell 5 (0-1') | Soil | M8015D | TPH Extractable by GC - Soil | 68424 | 1 | 03/02/15 01:06 PM | GC15_150302A |
| | Cell 5 (0-1') | Soil | M8015V | TPH Purgeable by GC - Soil | 68460 | 1 | 03/03/15 02:26 PM | GC4_150303A |
| | Cell 5 (0-1') | Soil | E418.1 | TRPH | 68486 | 1 | 03/04/15 03:05 PM | IR207_150304A |
| | Cell 5 (0-1') | Soil | SW8021B | Volatile Organics by GC | 68439 | 1 | 03/02/15 02:20 PM | GC4_150302A |
| 1502214-08A | Cell 6 (2-3) | Soil | E300 | Anions by IC method - Soil | 68435 | 10 | 03/02/15 12:30 PM | IC2_150302A |
| | Cell 6 (2-3) | Soil | D2216 | Percent Moisture | 68428 | 1 | 03/02/15 08:50 AM | PMOIST_150227A |
| | Cell 6 (2-3) | Soil | M8015D | TPH Extractable by GC - Soil | 68424 | 1 | 03/02/15 12:03 PM | GC15_150302A |
| | Cell 6 (2-3) | Soil | M8015V | TPH Purgeable by GC - Soil | 68460 | 1 | 03/03/15 02:50 PM | GC4_150303A |
| | Cell 6 (2-3) | Soil | E418.1 | TRPH | 68486 | 1 | 03/04/15 03:05 PM | IR207_150304A |
| | Cell 6 (2-3) | Soil | SW8021B | Volatile Organics by GC | 68439 | 1 | 03/02/15 02:44 PM | GC4_150302A |
| | Cell 6 (0-1') | Soil | E300 | Anions by IC method - Soil | 68435 | 10 | 03/02/15 01:50 PM | IC2_150302A |
| 1502214-09A | Cell 6 (0-1') | Soil | D2216 | Percent Moisture | 68428 | 1 | 03/02/15 08:50 AM | PMOIST_150227A |
| | Cell 6 (0-1') | Soil | M8015D | TPH Extractable by GC - Soil | 68424 | 10 | 03/02/15 12:30 PM | GC15_150302A |
| | Cell 6 (0-1') | Soil | M8015D | TPH Extractable by GC - Soil | 68424 | 1 | 03/02/15 01:15 PM | GC15_150302A |
| | Cell 6 (0-1') | Soil | M8015V | TPH Purgeable by GC - Soil | 68460 | 1 | 03/03/15 03:14 PM | GC4_150303A |

Lab Order: 1502214
Client: Larson & Associates
Project: R360 Landfarm

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|-------------------------|----------|----------|-------------------|---------------|
| 1502214-09A | Cell 6 (0-1') | Soil | E418.1 | TRPH | 68486 | 1 | 03/04/15 03:05 PM | IR207_150304A |
| | Cell 6 (0-1') | Soil | SW8021B | Volatile Organics by GC | 68439 | 1 | 03/02/15 03:09 PM | GC4_150302A |

DHL Analytical, Inc.

Date: 20-Mar-15

CLIENT: Larson & Associates **Client Sample ID:** Cell 1 (2-3)
Project: R360 Landfarm **Lab ID:** 1502214-01
Project No: 15-0121-01 **Collection Date:** 02/24/15 01:00 PM
Lab Order: 1502214 **Matrix:** SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|---------------|------------|-----------|-------------|--------------|-----------|----------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | ND | 3.09 | 10.3 | | mg/Kg-dry | 1 | 03/02/15 11:00 AM |
| Surrogate: Isopropylbenzene | 75.8 | 0 | 47-142 | %REC | | 1 | 03/02/15 11:00 AM |
| Surrogate: Octacosane | 77.5 | 0 | 25-162 | %REC | | 1 | 03/02/15 11:00 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | ND | 0.101 | 0.202 | | mg/Kg-dry | 1 | 03/03/15 12:00 PM |
| Surrogate: Tetrachlorethene | 102 | 0 | 70-134 | %REC | | 1 | 03/03/15 12:00 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| SW8021B | | | | | | | |
| Benzene | ND | 0.00323 | 0.00538 | | mg/Kg-dry | 1 | 03/02/15 11:49 AM |
| Ethylbenzene | ND | 0.00538 | 0.0161 | | mg/Kg-dry | 1 | 03/02/15 11:49 AM |
| Toluene | ND | 0.00538 | 0.0161 | | mg/Kg-dry | 1 | 03/02/15 11:49 AM |
| Xylenes, Total | ND | 0.00538 | 0.0161 | | mg/Kg-dry | 1 | 03/02/15 11:49 AM |
| Surrogate: Tetrachloroethene | 106 | 0 | 79-135 | %REC | | 1 | 03/02/15 11:49 AM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | ND | 5.30 | 10.6 | N | mg/Kg-dry | 1 | 03/04/15 03:05 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| E300 | | | | | | | |
| Chloride | 7.90 | 5.15 | 5.15 | | mg/Kg-dry | 1 | 03/02/15 10:44 AM |
| PERCENT MOISTURE | | | | | | | |
| D2216 | | | | | | | |
| Percent Moisture | 7.77 | 0 | 0 | | WT% | 1 | 03/02/15 08:50 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 20-Mar-15

| | | | |
|--------------------|---------------------|--------------------------|-------------------|
| CLIENT: | Larson & Associates | Client Sample ID: | Cell 2 (2-3) |
| Project: | R360 Landfarm | Lab ID: | 1502214-02 |
| Project No: | 15-0121-01 | Collection Date: | 02/24/15 02:00 PM |
| Lab Order: | 1502214 | Matrix: | SOIL |

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | ND | 3.80 | 12.7 | | mg/Kg-dry | 1 | 03/02/15 11:09 AM |
| Surr: Isopropylbenzene | 66.1 | 0 | 47-142 | %REC | | 1 | 03/02/15 11:09 AM |
| Surr: Octacosane | 74.1 | 0 | 25-162 | %REC | | 1 | 03/02/15 11:09 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | ND | 0.123 | 0.246 | | mg/Kg-dry | 1 | 03/03/15 12:25 PM |
| Surr: Tetrachlorethene | 101 | 0 | 70-134 | %REC | | 1 | 03/03/15 12:25 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| SW8021B | | | | | | | |
| Benzene | ND | 0.00374 | 0.00624 | | mg/Kg-dry | 1 | 03/02/15 12:14 PM |
| Ethylbenzene | ND | 0.00624 | 0.0187 | | mg/Kg-dry | 1 | 03/02/15 12:14 PM |
| Toluene | ND | 0.00624 | 0.0187 | | mg/Kg-dry | 1 | 03/02/15 12:14 PM |
| Xylenes, Total | ND | 0.00624 | 0.0187 | | mg/Kg-dry | 1 | 03/02/15 12:14 PM |
| Surr: Tetrachloroethene | 102 | 0 | 79-135 | %REC | | 1 | 03/02/15 12:14 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 20.9 | 6.45 | 12.9 | N | mg/Kg-dry | 1 | 03/04/15 03:05 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| E300 | | | | | | | |
| Chloride | 35.2 | 6.49 | 6.49 | | mg/Kg-dry | 1 | 03/02/15 10:59 AM |
| PERCENT MOISTURE | | | | | | | |
| D2216 | | | | | | | |
| Percent Moisture | 23.8 | 0 | 0 | | WT% | 1 | 03/02/15 08:50 AM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 20-Mar-15

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 15-0121-01
Lab Order: 1502214

Client Sample ID: Cell 2 (0-1')
Lab ID: 1502214-03
Collection Date: 02/24/15 02:30 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-----------------------------------|--------|---------|---------|------|-----------|----|-------------------|
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | ND | 0.00375 | 0.00625 | | mg/Kg-dry | 1 | 03/02/15 12:40 PM |
| Ethylbenzene | ND | 0.00625 | 0.0187 | | mg/Kg-dry | 1 | 03/02/15 12:40 PM |
| Toluene | ND | 0.00625 | 0.0187 | | mg/Kg-dry | 1 | 03/02/15 12:40 PM |
| Xylenes, Total | ND | 0.00625 | 0.0187 | | mg/Kg-dry | 1 | 03/02/15 12:40 PM |
| Surr: Tetrachloroethene | 98.9 | 0 | 79-135 | %REC | | 1 | 03/02/15 12:40 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 24.4 | 6.18 | 12.4 | N | mg/Kg-dry | 1 | 03/04/15 03:05 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 37.0 | 5.75 | 5.75 | | mg/Kg-dry | 1 | 03/02/15 11:13 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 24.5 | 0 | 0 | | WT% | 1 | 03/02/15 08:50 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.
Date: 20-Mar-15

CLIENT: Larson & Associates **Client Sample ID:** Cell 3 (2-3)
Project: R360 Landfarm **Lab ID:** 1502214-04
Project No: 15-0121-01 **Collection Date:** 02/24/15 03:00 PM
Lab Order: 1502214 **Matrix:** SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|---------------|------------|-----------|-------------|--------------|-----------|----------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | ND | 3.53 | 11.8 | | mg/Kg-dry | 1 | 03/02/15 11:27 AM |
| Surr: Isopropylbenzene | 58.5 | 0 | 47-142 | %REC | | 1 | 03/02/15 11:27 AM |
| Surr: Octacosane | 69.4 | 0 | 25-162 | %REC | | 1 | 03/02/15 11:27 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | ND | 0.108 | 0.216 | | mg/Kg-dry | 1 | 03/03/15 01:13 PM |
| Surr: Tetrachlorethene | 101 | 0 | 70-134 | %REC | | 1 | 03/03/15 01:13 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | ND | 0.00326 | 0.00543 | | mg/Kg-dry | 1 | 03/02/15 01:05 PM |
| Ethylbenzene | ND | 0.00543 | 0.0163 | | mg/Kg-dry | 1 | 03/02/15 01:05 PM |
| Toluene | ND | 0.00543 | 0.0163 | | mg/Kg-dry | 1 | 03/02/15 01:05 PM |
| Xylenes, Total | ND | 0.00543 | 0.0163 | | mg/Kg-dry | 1 | 03/02/15 01:05 PM |
| Surr: Tetrachloroethene | 101 | 0 | 79-135 | %REC | | 1 | 03/02/15 01:05 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | ND | 6.01 | 12.0 | N | mg/Kg-dry | 1 | 03/04/15 03:05 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 98.8 | 52.7 | 52.7 | | mg/Kg-dry | 10 | 03/02/15 11:32 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 17.6 | 0 | 0 | | WT% | 1 | 03/02/15 08:50 AM |

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds TCLP Maximum Concentration Level | B Analyte detected in the associated Method Blank |
| C | Sample Result or QC discussed in the Case Narrative | DF Dilution Factor |
| E | TPH pattern not Gas or Diesel Range Pattern | J Analyte detected between MDL and RL |
| MDL | Method Detection Limit | ND Not Detected at the Method Detection Limit |
| RL | Reporting Limit | S Spike Recovery outside control limits |
| N | Parameter not NELAC certified | |

DHL Analytical, Inc.

Date: 20-Mar-15

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 15-0121-01
Lab Order: 1502214

Client Sample ID: Cell 4 (2-3)
Lab ID: 1502214-05
Collection Date: 02/24/15 04:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | ND | 2.92 | 9.73 | | mg/Kg-dry | 1 | 03/02/15 11:36 AM |
| Surr: Isopropylbenzene | 69.7 | 0 | 47-142 | %REC | | 1 | 03/02/15 11:36 AM |
| Surr: Octacosane | 76.1 | 0 | 25-162 | %REC | | 1 | 03/02/15 11:36 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | ND | 0.0982 | 0.196 | | mg/Kg-dry | 1 | 03/03/15 01:37 PM |
| Surr: Tetrachlorethene | 111 | 0 | 70-134 | %REC | | 1 | 03/03/15 01:37 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | ND | 0.00304 | 0.00506 | | mg/Kg-dry | 1 | 03/02/15 01:30 PM |
| Ethylbenzene | ND | 0.00506 | 0.0152 | | mg/Kg-dry | 1 | 03/02/15 01:30 PM |
| Toluene | ND | 0.00506 | 0.0152 | | mg/Kg-dry | 1 | 03/02/15 01:30 PM |
| Xylenes, Total | ND | 0.00506 | 0.0152 | | mg/Kg-dry | 1 | 03/02/15 01:30 PM |
| Surr: Tetrachloroethene | 103 | 0 | 79-135 | %REC | | 1 | 03/02/15 01:30 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | ND | 4.96 | 9.92 | N | mg/Kg-dry | 1 | 03/04/15 03:05 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 32.3 | 4.67 | 4.67 | | mg/Kg-dry | 1 | 03/02/15 01:21 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 4.46 | 0 | 0 | | WT% | 1 | 03/02/15 08:50 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 15-0121-01
Lab Order: 1502214

Client Sample ID: Cell 5 (2-3)
Lab ID: 1502214-06
Collection Date: 02/24/15 05:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 186 | 3.26 | 10.9 | | mg/Kg-dry | 1 | 03/02/15 12:57 PM |
| Surr: Isopropylbenzene | 68.1 | 0 | 47-142 | %REC | | 1 | 03/02/15 12:57 PM |
| Surr: Octacosane | 161 | 0 | 25-162 | %REC | | 1 | 03/02/15 12:57 PM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | ND | 0.103 | 0.206 | | mg/Kg-dry | 1 | 03/03/15 02:02 PM |
| Surr: Tetrachlorethene | 106 | 0 | 70-134 | %REC | | 1 | 03/03/15 02:02 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | ND | 0.00328 | 0.00546 | | mg/Kg-dry | 1 | 03/02/15 01:55 PM |
| Ethylbenzene | ND | 0.00546 | 0.0164 | | mg/Kg-dry | 1 | 03/02/15 01:55 PM |
| Toluene | ND | 0.00546 | 0.0164 | | mg/Kg-dry | 1 | 03/02/15 01:55 PM |
| Xylenes, Total | ND | 0.00546 | 0.0164 | | mg/Kg-dry | 1 | 03/02/15 01:55 PM |
| Surr: Tetrachloroethene | 96.5 | 0 | 79-135 | %REC | | 1 | 03/02/15 01:55 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 333 | 5.38 | 10.8 | N | mg/Kg-dry | 1 | 03/04/15 03:05 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 536 | 54.4 | 54.4 | | mg/Kg-dry | 10 | 03/02/15 01:35 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 9.58 | 0 | 0 | | WT% | 1 | 03/02/15 08:50 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

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DHL Analytical, Inc.

Date: 20-Mar-15

DHL Analytical, Inc.**Date:** 20-Mar-15

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 15-0121-01
Lab Order: 1502214

Client Sample ID: Cell 5 (0-1')
Lab ID: 1502214-07
Collection Date: 02/24/15 05:30 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 388 | 33.0 | 110 | | mg/Kg-dry | 10 | 03/02/15 11:54 AM |
| Surr: Isopropylbenzene | 64.4 | 0 | 47-142 | | %REC | 10 | 03/02/15 11:54 AM |
| Surr: Octacosane | 269 | 0 | 25-162 | S | %REC | 10 | 03/02/15 11:54 AM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | ND | 0.102 | 0.203 | | mg/Kg-dry | 1 | 03/03/15 02:26 PM |
| Surr: Tetrachlorethene | 94.4 | 0 | 70-134 | | %REC | 1 | 03/03/15 02:26 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | ND | 0.00335 | 0.00558 | | mg/Kg-dry | 1 | 03/02/15 02:20 PM |
| Ethylbenzene | ND | 0.00558 | 0.0167 | | mg/Kg-dry | 1 | 03/02/15 02:20 PM |
| Toluene | ND | 0.00558 | 0.0167 | | mg/Kg-dry | 1 | 03/02/15 02:20 PM |
| Xylenes, Total | ND | 0.00558 | 0.0167 | | mg/Kg-dry | 1 | 03/02/15 02:20 PM |
| Surr: Tetrachloroethene | 90.0 | 0 | 79-135 | | %REC | 1 | 03/02/15 02:20 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 370 | 5.76 | 11.5 | N | mg/Kg-dry | 1 | 03/04/15 03:05 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 144 | 5.24 | 5.24 | | mg/Kg-dry | 1 | 03/02/15 12:16 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 16.4 | 0 | 0 | | WT% | 1 | 03/02/15 08:50 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 20-Mar-15

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 15-0121-01
Lab Order: 1502214

Client Sample ID: Cell 6 (2-3)
Lab ID: 1502214-08
Collection Date: 02/24/15 06:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | ND | 3.04 | 10.1 | | mg/Kg-dry | 1 | 03/02/15 12:03 PM |
| Surr: Isopropylbenzene | 69.8 | 0 | 47-142 | %REC | | 1 | 03/02/15 12:03 PM |
| Surr: Octacosane | 76.9 | 0 | 25-162 | %REC | | 1 | 03/02/15 12:03 PM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | ND | 0.0966 | 0.193 | | mg/Kg-dry | 1 | 03/03/15 02:50 PM |
| Surr: Tetrachlorethene | 102 | 0 | 70-134 | %REC | | 1 | 03/03/15 02:50 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | ND | 0.00289 | 0.00482 | | mg/Kg-dry | 1 | 03/02/15 02:44 PM |
| Ethylbenzene | ND | 0.00482 | 0.0145 | | mg/Kg-dry | 1 | 03/02/15 02:44 PM |
| Toluene | ND | 0.00482 | 0.0145 | | mg/Kg-dry | 1 | 03/02/15 02:44 PM |
| Xylenes, Total | ND | 0.00482 | 0.0145 | | mg/Kg-dry | 1 | 03/02/15 02:44 PM |
| Surr: Tetrachloroethene | 105 | 0 | 79-135 | %REC | | 1 | 03/02/15 02:44 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | ND | 5.10 | 10.2 | N | mg/Kg-dry | 1 | 03/04/15 03:05 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 69.8 | 48.6 | 48.6 | | mg/Kg-dry | 10 | 03/02/15 12:30 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 3.39 | 0 | 0 | | WT% | 1 | 03/02/15 08:50 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 20-Mar-15

CLIENT: Larson & Associates **Client Sample ID:** Cell 6 (0-1')
Project: R360 Landfarm **Lab ID:** 1502214-09
Project No: 15-0121-01 **Collection Date:** 02/24/15 06:30 PM
Lab Order: 1502214 **Matrix:** SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|---------|---------|------|-----------|----|-------------------|
| TPH EXTRACTABLE BY GC - SOIL | | | | | | | |
| TPH-DRO C10-C28 | 120 | 3.15 | 10.5 | | mg/Kg-dry | 1 | 03/02/15 01:15 PM |
| Surr: Isopropylbenzene | 69.4 | 0 | 47-142 | %REC | | 1 | 03/02/15 01:15 PM |
| Surr: Octacosane | 152 | 0 | 25-162 | %REC | | 1 | 03/02/15 01:15 PM |
| TPH PURGEABLE BY GC - SOIL | | | | | | | |
| Gasoline Range Organics | ND | 0.0998 | 0.200 | | mg/Kg-dry | 1 | 03/03/15 03:14 PM |
| Surr: Tetrachlorethene | 104 | 0 | 70-134 | %REC | | 1 | 03/03/15 03:14 PM |
| VOLATILE ORGANICS BY GC | | | | | | | |
| Benzene | ND | 0.00295 | 0.00491 | | mg/Kg-dry | 1 | 03/02/15 03:09 PM |
| Ethylbenzene | ND | 0.00491 | 0.0147 | | mg/Kg-dry | 1 | 03/02/15 03:09 PM |
| Toluene | ND | 0.00491 | 0.0147 | | mg/Kg-dry | 1 | 03/02/15 03:09 PM |
| Xylenes, Total | ND | 0.00491 | 0.0147 | | mg/Kg-dry | 1 | 03/02/15 03:09 PM |
| Surr: Tetrachloroethene | 91.9 | 0 | 79-135 | %REC | | 1 | 03/02/15 03:09 PM |
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | 57.7 | 5.30 | 10.6 | N | mg/Kg-dry | 1 | 03/04/15 03:05 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 282 | 50.7 | 50.7 | | mg/Kg-dry | 10 | 03/02/15 01:50 PM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 8.74 | 0 | 0 | | WT% | 1 | 03/02/15 08:50 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

CLIENT: Larson & Associates
Work Order: 1502214
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT**RunID:** GC15_150302A

The QC data in batch 68424 applies to the following samples: 1502214-01A, 1502214-02A, 1502214-03A, 1502214-04A, 1502214-05A, 1502214-06A, 1502214-07A, 1502214-08A, 1502214-09A

| Sample ID | Batch ID: | TestNo: | Units: | | | | | | | |
|-----------------------|----------------------|-------------------------------------|----------------------|---------|------|----------|-----------|------|----------|------|
| SampType: | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | ND | 10.0 | | | | | | | | |
| Sur: Isopropylbenzene | 5.56 | | 7.500 | | 74.2 | 47 | 142 | | | |
| Sur: Octacosane | 5.99 | | 7.500 | | 79.8 | 25 | 162 | | | |
| Sample ID | Batch ID: | TestNo: | Units: | | | | | | | |
| LCS1-68424 | 68424 | M8015D | mg/Kg | | | | | | | |
| SampType: LCS | Run ID: GC15_150302A | Analysis Date: 3/2/2015 10:24:47 AM | Prep Date: 2/27/2015 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | 69.7 | 10.0 | 125.0 | 0 | 55.7 | 50 | 114 | | | |
| Sur: Isopropylbenzene | 4.15 | | 7.500 | | 55.3 | 47 | 142 | | | |
| Sur: Octacosane | 5.48 | | 7.500 | | 73.1 | 25 | 162 | | | |
| Sample ID | Batch ID: | TestNo: | Units: | | | | | | | |
| LCS2-68424 | 68424 | M8015D | mg/Kg | | | | | | | |
| SampType: LCS | Run ID: GC15_150302A | Analysis Date: 3/2/2015 10:33:45 AM | Prep Date: 2/27/2015 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | 70.2 | 10.0 | 125.0 | 0 | 56.2 | 50 | 114 | | | |
| Sur: Isopropylbenzene | 4.00 | | 7.500 | | 53.4 | 47 | 142 | | | |
| Sur: Octacosane | 5.40 | | 7.500 | | 72.0 | 25 | 162 | | | |
| Sample ID | Batch ID: | TestNo: | Units: | | | | | | | |
| LCS3-68424 | 68424 | M8015D | mg/Kg | | | | | | | |
| SampType: LCS | Run ID: GC15_150302A | Analysis Date: 3/2/2015 10:42:43 AM | Prep Date: 2/27/2015 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | 68.9 | 10.0 | 125.0 | 0 | 55.1 | 50 | 114 | | | |
| Sur: Isopropylbenzene | 3.68 | | 7.500 | | 49.1 | 47 | 142 | | | |
| Sur: Octacosane | 5.37 | | 7.500 | | 71.6 | 25 | 162 | | | |
| Sample ID | Batch ID: | TestNo: | Units: | | | | | | | |
| LCS4-68424 | 68424 | M8015D | mg/Kg | | | | | | | |
| SampType: LCS | Run ID: GC15_150302A | Analysis Date: 3/2/2015 10:51:40 AM | Prep Date: 2/27/2015 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | 66.6 | 10.0 | 125.0 | 0 | 53.2 | 50 | 114 | | | |
| Sur: Isopropylbenzene | 4.12 | | 7.500 | | 54.9 | 47 | 142 | | | |
| Sur: Octacosane | 5.17 | | 7.500 | | 68.9 | 25 | 162 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1502214
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_150302A

| | | | | | | | |
|-----------|---------------|-----------|--------------|----------------|----------------------|------------|-----------|
| Sample ID | 1502214-08AMS | Batch ID: | 68424 | TestNo: | M8015D | Units: | mg/Kg-dry |
| SampType: | MS | Run ID: | GC15_150302A | Analysis Date: | 3/2/2015 12:12:27 PM | Prep Date: | 2/27/2015 |
| <hr/> | | | | | | | |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------------------------|--------|------|-----------|---------|------|----------|-----------|------|----------|------|
| TPH-DRO C10-C28 | 70.7 | 9.84 | 123.0 | 0 | 57.5 | 50 | 114 | | | |
| Surrogate: Isopropylbenzene | 5.25 | | 7.380 | | 71.1 | 47 | 142 | | | |
| Surrogate: Octacosane | 5.53 | | 7.380 | | 74.9 | 25 | 162 | | | |

| | | | | | | | |
|-----------|----------------|-----------|--------------|----------------|----------------------|------------|-----------|
| Sample ID | 1502214-08AMSD | Batch ID: | 68424 | TestNo: | M8015D | Units: | mg/Kg-dry |
| SampType: | MSD | Run ID: | GC15_150302A | Analysis Date: | 3/2/2015 12:21:26 PM | Prep Date: | 2/27/2015 |
| <hr/> | | | | | | | |
| <hr/> | | | | | | | |

| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------------------------|--------|------|-----------|---------|------|----------|-----------|-------|----------|------|
| TPH-DRO C10-C28 | 70.7 | 9.98 | 124.8 | 0 | 56.6 | 50 | 114 | 0.098 | 30 | |
| Surrogate: Isopropylbenzene | 5.21 | | 7.486 | | 69.6 | 47 | 142 | 0 | 0 | |
| Surrogate: Octacosane | 5.48 | | 7.486 | | 73.1 | 25 | 162 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1502214
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_150302A

| Sample ID | ICV-150302 | Batch ID: | R78316 | TestNo: | M8015D | Units: | mg/Kg | | | | |
|-----------------------|-------------|-----------|--------------|----------------|----------------------|------------|----------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GC15_150302A | Analysis Date: | 3/2/2015 10:05:34 AM | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 462 | 10.0 | 500.0 | 0 | 92.4 | 80 | 120 | | | |
| Sur: Isopropylbenzene | | 27.2 | | 25.00 | | 109 | 80 | 120 | | | |
| Sur: Octacosane | | 26.1 | | 25.00 | | 105 | 80 | 120 | | | |
| Sample ID | CCV-150302 | Batch ID: | R78316 | TestNo: | M8015D | Units: | mg/Kg | | | | |
| SampType: | CCV | Run ID: | GC15_150302A | Analysis Date: | 3/2/2015 12:39:22 PM | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 221 | 10.0 | 250.0 | 0 | 88.3 | 80 | 120 | | | |
| Sur: Isopropylbenzene | | 14.9 | | 12.50 | | 119 | 80 | 120 | | | |
| Sur: Octacosane | | 13.8 | | 12.50 | | 111 | 80 | 120 | | | |
| Sample ID | CCV2-150302 | Batch ID: | R78316 | TestNo: | M8015D | Units: | mg/Kg | | | | |
| SampType: | CCV | Run ID: | GC15_150302A | Analysis Date: | 3/2/2015 1:33:33 PM | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| TPH-DRO C10-C28 | | 218 | 10.0 | 250.0 | 0 | 87.1 | 80 | 120 | | | |
| Sur: Isopropylbenzene | | 14.8 | | 12.50 | | 119 | 80 | 120 | | | |
| Sur: Octacosane | | 12.8 | | 12.50 | | 102 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1502214
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_150302A

The QC data in batch 68439 applies to the following samples: 1502214-01A, 1502214-02A, 1502214-03A, 1502214-04A, 1502214-05A, 1502214-06A, 1502214-07A, 1502214-08A, 1502214-09A

| Sample ID | LCS-68439 | Batch ID: | 68439 | TestNo: | SW8021B | | Units: | mg/Kg | | | |
|-------------------------|---|-----------|-------------|-----------|-------------------------------------|------|------------|-----------|-------|----------|------|
| SampType: | LCS | Run ID: | GC4_150302A | | Analysis Date: 3/2/2015 10:27:52 AM | | Prep Date: | 3/2/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.0960 | 0.00500 | 0.1000 | 0 | 96.0 | 65 | 113 | | | |
| Toluene | | 0.0953 | 0.0150 | 0.1000 | 0 | 95.3 | 73 | 115 | | | |
| Ethylbenzene | | 0.0953 | 0.0150 | 0.1000 | 0 | 95.3 | 74 | 118 | | | |
| Xylenes, Total | | 0.287 | 0.0150 | 0.3000 | 0 | 95.8 | 73 | 119 | | | |
| Surr: Tetrachloroethene | | 0.200 | | 0.2000 | | 100 | 79 | 135 | | | |
| Sample ID | MB-68439 | Batch ID: | 68439 | TestNo: | SW8021B | | Units: | mg/Kg | | | |
| SampType: | MBLK <th>Run ID:</th> <td>GC4_150302A</td> <th></th> <th data-cs="2" data-kind="parent">Analysis Date: 3/2/2015 11:18:08 AM</th> <th data-kind="ghost"></th> <th>Prep Date:</th> <td data-cs="3" data-kind="parent">3/2/2015</td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> | Run ID: | GC4_150302A | | Analysis Date: 3/2/2015 11:18:08 AM | | Prep Date: | 3/2/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | ND | 0.00500 | | | | | | | | |
| Toluene | | ND | 0.0150 | | | | | | | | |
| Ethylbenzene | | ND | 0.0150 | | | | | | | | |
| Xylenes, Total | | ND | 0.0150 | | | | | | | | |
| Surr: Tetrachloroethene | | 0.205 | | 0.2000 | | 102 | 79 | 135 | | | |
| Sample ID | 1502214-09AMS | Batch ID: | 68439 | TestNo: | SW8021B | | Units: | mg/Kg-dry | | | |
| SampType: | MS | Run ID: | GC4_150302A | | Analysis Date: 3/2/2015 3:35:18 PM | | Prep Date: | 3/2/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.0855 | 0.00488 | 0.09767 | 0 | 87.5 | 65 | 113 | | | |
| Toluene | | 0.0806 | 0.0147 | 0.09767 | 0 | 82.5 | 73 | 115 | | | |
| Ethylbenzene | | 0.0772 | 0.0147 | 0.09767 | 0 | 79.1 | 74 | 118 | | | |
| Xylenes, Total | | 0.229 | 0.0147 | 0.2930 | 0 | 78.2 | 73 | 119 | | | |
| Surr: Tetrachloroethene | | 0.176 | | 0.1953 | | 90.0 | 79 | 135 | | | |
| Sample ID | 1502214-09AMSD | Batch ID: | 68439 | TestNo: | SW8021B | | Units: | mg/Kg-dry | | | |
| SampType: | MSD | Run ID: | GC4_150302A | | Analysis Date: 3/2/2015 4:00:36 PM | | Prep Date: | 3/2/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.0868 | 0.00495 | 0.09908 | 0 | 87.6 | 65 | 113 | 1.53 | 30 | |
| Toluene | | 0.0825 | 0.0149 | 0.09908 | 0 | 83.2 | 73 | 115 | 2.30 | 30 | |
| Ethylbenzene | | 0.0780 | 0.0149 | 0.09908 | 0 | 78.7 | 74 | 118 | 0.998 | 30 | |
| Xylenes, Total | | 0.229 | 0.0149 | 0.2972 | 0 | 77.0 | 73 | 119 | 0.104 | 30 | |
| Surr: Tetrachloroethene | | 0.174 | | 0.1982 | | 88.0 | 79 | 135 | 0 | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1502214
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_150302A

| Sample ID | ICV-150302 | Batch ID: | R78326 | TestNo: | SW8021B | Units: | mg/Kg | | | | |
|------------------------------|------------|-----------|-------------|------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GC4_150302A | Analysis Date: 3/2/2015 9:52:44 AM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.180 | 0.00500 | 0.2000 | 0 | 89.8 | 80 | 120 | | | |
| Toluene | | 0.177 | 0.0150 | 0.2000 | 0 | 88.3 | 80 | 120 | | | |
| Ethylbenzene | | 0.180 | 0.0150 | 0.2000 | 0 | 90.1 | 80 | 120 | | | |
| Xylenes, Total | | 0.570 | 0.0150 | 0.6000 | 0 | 95.0 | 80 | 120 | | | |
| Surrogate: Tetrachloroethene | | 0.188 | | 0.2000 | | 93.8 | 79 | 135 | | | |

| Sample ID | CCV1-150302 | Batch ID: | R78326 | TestNo: | SW8021B | Units: | mg/Kg | | | | |
|------------------------------|-------------|-----------|-------------|------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | GC4_150302A | Analysis Date: 3/2/2015 4:31:15 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.0951 | 0.00500 | 0.1000 | 0 | 95.1 | 80 | 120 | | | |
| Toluene | | 0.0949 | 0.0150 | 0.1000 | 0 | 94.9 | 80 | 120 | | | |
| Ethylbenzene | | 0.0944 | 0.0150 | 0.1000 | 0 | 94.4 | 80 | 120 | | | |
| Xylenes, Total | | 0.283 | 0.0150 | 0.3000 | 0 | 94.3 | 80 | 120 | | | |
| Surrogate: Tetrachloroethene | | 0.182 | | 0.2000 | | 90.8 | 79 | 135 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates

Work Order: 1502214

Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_150303A

The QC data in batch 68460 applies to the following samples: 1502214-01A, 1502214-02A, 1502214-03A, 1502214-04A, 1502214-05A, 1502214-06A, 1502214-07A, 1502214-08A, 1502214-09A

| Sample ID | Batch ID: | TestNo: | Units: | | | | | | | |
|-------------------------|-----------|----------------|------------|---------|------|----------|-----------|------|----------|------|
| SampType | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | 4.38 | 0.200 | 5.000 | 0 | 87.6 | 68 | 126 | | | |
| Surr: Tetrachlorethene | 0.324 | | 0.4000 | | 81.0 | 70 | 134 | | | |
| Sample ID | Batch ID: | TestNo: | Units: | | | | | | | |
| SampType | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | ND | 0.200 | | | | | | | | |
| Surr: Tetrachlorethene | 0.427 | | 0.4000 | | 107 | 70 | 134 | | | |
| Sample ID | Batch ID: | TestNo: | Units: | | | | | | | |
| SampType | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | 4.76 | 0.198 | 4.945 | 0 | 96.2 | 68 | 126 | | | |
| Surr: Tetrachlorethene | 0.389 | | 0.3956 | | 98.3 | 70 | 134 | | | |
| Sample ID | Batch ID: | TestNo: | Units: | | | | | | | |
| SampType | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | 4.45 | 0.193 | 4.832 | 0 | 92.1 | 68 | 126 | 6.70 | 30 | |
| Surr: Tetrachlorethene | 0.358 | | 0.3865 | | 92.5 | 70 | 134 | 0 | 0 | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1502214
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_150303A

| Sample ID | ICV-150303 | Batch ID: | R78349 | TestNo: | M8015V | Units: | mg/Kg | | | | |
|-------------------------|------------|-----------|-------------|------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GC4_150303A | Analysis Date: 3/3/2015 9:40:46 AM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 9.52 | 0.200 | 10.00 | 0 | 95.2 | 80 | 120 | | | |
| Surr: Tetrachlorethane | | 0.322 | | 0.4000 | | 80.5 | 70 | 134 | | | |

| Sample ID | CCV1-150303 | Batch ID: | R78349 | TestNo: | M8015V | Units: | mg/Kg | | | | |
|-------------------------|-------------|-----------|-------------|------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | GC4_150303A | Analysis Date: 3/3/2015 4:31:06 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics | | 4.71 | 0.200 | 5.000 | 0 | 94.1 | 80 | 120 | | | |
| Surr: Tetrachlorethane | | 0.372 | | 0.4000 | | 93.1 | 70 | 134 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates

Work Order: 1502214

Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_150302A

The QC data in batch 68435 applies to the following samples: 1502214-01A, 1502214-02A, 1502214-03A, 1502214-04A, 1502214-05A, 1502214-06A, 1502214-07A, 1502214-08A, 1502214-09A

| | | | | | | | |
|-----------|----------------|-----------|-------------|----------------|----------------------|------------|---------------------------------------|
| Sample ID | MB-68435 | Batch ID: | 68435 | TestNo: | E300 | Units: | mg/Kg |
| SampType: | MBLK | Run ID: | IC2_150302A | Analysis Date: | 3/2/2015 9:50:46 AM | Prep Date: | 3/2/2015 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride | | ND | 5.00 | | | | |
| Sample ID | LCS-68435 | Batch ID: | 68435 | TestNo: | E300 | Units: | mg/Kg |
| SampType: | LCS | Run ID: | IC2_150302A | Analysis Date: | 3/2/2015 10:05:20 AM | Prep Date: | 3/2/2015 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride | | 53.6 | 5.00 | 50.00 | 0 | 107 | 80 120 |
| Sample ID | LCSD-68435 | Batch ID: | 68435 | TestNo: | E300 | Units: | mg/Kg |
| SampType: | LCSD | Run ID: | IC2_150302A | Analysis Date: | 3/2/2015 10:19:55 AM | Prep Date: | 3/2/2015 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride | | 53.6 | 5.00 | 50.00 | 0 | 107 | 80 120 0.007 20 |
| Sample ID | 1502214-09AMS | Batch ID: | 68435 | TestNo: | E300 | Units: | mg/Kg-dry |
| SampType: | MS | Run ID: | IC2_150302A | Analysis Date: | 3/2/2015 2:05:01 PM | Prep Date: | 3/2/2015 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride | | 836 | 53.2 | 106.4 | 281.5 | 522 | 80 120 S |
| Sample ID | 1502214-09AMSD | Batch ID: | 68435 | TestNo: | E300 | Units: | mg/Kg-dry |
| SampType: | MSD | Run ID: | IC2_150302A | Analysis Date: | 3/2/2015 2:19:36 PM | Prep Date: | 3/2/2015 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride | | 394 | 51.9 | 103.8 | 281.5 | 109 | 80 120 71.9 20 R |

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1502214
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_150302A

| Sample ID | ICV-150302 | Batch ID: | R78309 | TestNo: | E300 | Units: | mg/Kg | | | | |
|-----------|-------------|-----------|--|----------------|---------------------|------------|----------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | IC2_150302A <th>Analysis Date:</th> <td>3/2/2015 9:24:08 AM</td> <th>Prep Date:</th> <td></td> | Analysis Date: | 3/2/2015 9:24:08 AM | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 26.0 | 5.00 | 25.00 | 0 | 104 | 90 | 110 | | | |
| Sample ID | CCV1-150302 | Batch ID: | R78309 | TestNo: | E300 | Units: | mg/Kg | | | | |
| SampType: | CCV | Run ID: | IC2_150302A <th>Analysis Date:</th> <td>3/2/2015 1:02:01 PM</td> <th>Prep Date:</th> <td></td> | Analysis Date: | 3/2/2015 1:02:01 PM | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 10.7 | 5.00 | 10.00 | 0 | 107 | 90 | 110 | | | |
| Sample ID | CCV2-150302 | Batch ID: | R78309 | TestNo: | E300 | Units: | mg/Kg | | | | |
| SampType: | CCV | Run ID: | IC2_150302A <th>Analysis Date:</th> <td>3/2/2015 2:39:30 PM</td> <th>Prep Date:</th> <td></td> | Analysis Date: | 3/2/2015 2:39:30 PM | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 10.6 | 5.00 | 10.00 | 0 | 106 | 90 | 110 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1502214
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_150304A

The QC data in batch 68486 applies to the following samples: 1502214-01A, 1502214-02A, 1502214-03A, 1502214-04A, 1502214-05A, 1502214-06A, 1502214-07A, 1502214-08A, 1502214-09A

| | | | | | | | | | | |
|---|----------------|-----------|---------------|----------------|---------------------|------------|-----------|------|----|---|
| Sample ID | ICV-150304 | Batch ID: | 68486 | TestNo: | E418.1 | Units: | mg/Kg | | | |
| SampType: | ICV | Run ID: | IR207_150304A | Analysis Date: | 3/4/2015 3:05:00 PM | Prep Date: | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Petroleum Hydrocarbons, TR | 248 | 10.0 | 250.0 | 0 | 99.4 | 90 | 110 | N | | |
| Sample ID | MB-68486 | Batch ID: | 68486 | TestNo: | E418.1 | Units: | mg/Kg | | | |
| SampType: | MBLK | Run ID: | IR207_150304A | Analysis Date: | 3/4/2015 3:05:00 PM | Prep Date: | 3/4/2015 | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Petroleum Hydrocarbons, TR | ND | 10.0 | | | | | | N | | |
| Sample ID | LCS-68486 | Batch ID: | 68486 | TestNo: | E418.1 | Units: | mg/Kg | | | |
| SampType: | LCS | Run ID: | IR207_150304A | Analysis Date: | 3/4/2015 3:05:00 PM | Prep Date: | 3/4/2015 | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Petroleum Hydrocarbons, TR | 97.0 | 10.0 | 100.0 | 0 | 97.0 | 80 | 120 | N | | |
| Sample ID | 1502214-08AMS | Batch ID: | 68486 | TestNo: | E418.1 | Units: | mg/Kg-dry | | | |
| SampType: | MS | Run ID: | IR207_150304A | Analysis Date: | 3/4/2015 3:05:00 PM | Prep Date: | 3/4/2015 | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Petroleum Hydrocarbons, TR | 85.9 | 10.1 | 100.6 | 0 | 85.4 | 80 | 120 | N | | |
| Sample ID | 1502214-08AMSD | Batch ID: | 68486 | TestNo: | E418.1 | Units: | mg/Kg-dry | | | |
| SampType: | MSD | Run ID: | IR207_150304A | Analysis Date: | 3/4/2015 3:05:00 PM | Prep Date: | 3/4/2015 | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Petroleum Hydrocarbons, TR | 82.7 | 9.93 | 99.34 | 0 | 83.3 | 80 | 120 | 3.82 | 20 | N |
| Sample ID | CCV-150304 | Batch ID: | 68486 | TestNo: | E418.1 | Units: | mg/Kg | | | |
| SampType: | CCV | Run ID: | IR207_150304A | Analysis Date: | 3/4/2015 3:05:00 PM | Prep Date: | | | | |
| Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| Petroleum Hydrocarbons, TR | 252 | 10.0 | 250.0 | 0 | 101 | 85 | 115 | | | N |

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1502214
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_150227A

The QC data in batch 68428 applies to the following samples: 1502214-01A, 1502214-02A, 1502214-03A, 1502214-04A, 1502214-05A, 1502214-06A, 1502214-07A, 1502214-08A, 1502214-09A

| | | | | | | | |
|------------------|-----------------|-----------|----------------|----------------|---------------------|------------|---------------------------------------|
| Sample ID | 1502196-01A-DUP | Batch ID: | 68428 | TestNo: | D2216 | Units: | WT% |
| SampType: | DUP | Run ID: | PMOIST_150227A | Analysis Date: | 3/2/2015 8:50:00 AM | Prep Date: | 2/27/2015 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| Percent Moisture | | 19.6 | 0 | 0 | 19.72 | 0.501 | 30 |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**

PBELAB

Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Artesia Aeration Landfarm

Project Number: 15-0121-01

Location: NM

Lab Order Number: 5D16001



NELAP/TCEQ # T104704156-13-3

Report Date: 05/22/15

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|----------------|------------------|
| Cell 1 NS | 5D16001-01 | Soil | 04/14/15 11:00 | 04-15-2015 10:40 |
| Cell 3 NS | 5D16001-02 | Soil | 04/14/15 12:00 | 04-15-2015 10:40 |
| Cell 4 NS | 5D16001-03 | Soil | 04/14/15 12:30 | 04-15-2015 10:40 |
| Cell 5 NS | 5D16001-04 | Soil | 04/14/15 13:00 | 04-15-2015 10:40 |
| Cell 1 Comp | 5D16001-05 | Soil | 04/14/15 13:15 | 04-15-2015 10:40 |
| Cell 3 Comp | 5D16001-06 | Soil | 04/14/15 13:45 | 04-15-2015 10:40 |
| Cell 4 Comp | 5D16001-07 | Soil | 04/14/15 14:00 | 04-15-2015 10:40 |
| Cell 5 Comp | 5D16001-08 | Soil | 04/14/15 14:15 | 04-15-2015 10:40 |

Metals analysis was subcontracted to Test America. Their report is attached to the back of this report. Their certification number is T104704223-10-6-TX. TPH 418.1 analysis was sent to Cardinal Laboratories in Hobbs NM. There is no NELAC Certification for method 418.1

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Cell 1 NS

5D16001-01 (Soil)

| Analyte | Result | PQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Organics by GC

| | | | | | | | | | |
|---------------------------------|--------|---------|-----------|---|---------|----------|----------|-----------|--|
| Benzene | ND | 0.00109 | mg/kg dry | 1 | P5D1705 | 04/16/15 | 04/17/15 | EPA 8021B | |
| Toluene | ND | 0.00217 | mg/kg dry | 1 | P5D1705 | 04/16/15 | 04/17/15 | EPA 8021B | |
| Ethylbenzene | ND | 0.00109 | mg/kg dry | 1 | P5D1705 | 04/16/15 | 04/17/15 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00217 | mg/kg dry | 1 | P5D1705 | 04/16/15 | 04/17/15 | EPA 8021B | |
| Xylene (o) | ND | 0.00109 | mg/kg dry | 1 | P5D1705 | 04/16/15 | 04/17/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | 104 % | | 75-125 | | P5D1705 | 04/16/15 | 04/17/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | 81.0 % | | 75-125 | | P5D1705 | 04/16/15 | 04/17/15 | EPA 8021B | |

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | | |
|------------------|------|-------|------------------|----|---------|----------|----------|---------------|-------|
| Total Alkalinity | 4500 | 2.00 | mg/kg | 1 | P5E2205 | 04/21/15 | 04/21/15 | EPA 310.1M | |
| Chloride | 5.78 | 1.09 | mg/kg dry | 1 | P5D1706 | 04/16/15 | 04/17/15 | EPA 300.0 | |
| % Moisture | 8.0 | 0.1 | % | 1 | P5D1701 | 04/17/15 | 04/17/15 | % calculation | |
| Sulfate | 48.3 | 0.500 | mg/kg dry wt. dr | 1 | P5D1706 | 04/16/15 | 04/16/15 | EPA 300.0 | |
| TPH 418.1 | ND | 100 | mg/kg dry | 10 | P5E0606 | 05/05/15 | 05/05/15 | EPA 418.1 | SUB-3 |

Total Metals by EPA / Standard Methods

| | | | | | | | | | |
|-----------|------|-----------|-----------|---|---------|----------|----------|-----------|-------|
| Silver | ND | 0.00500 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Arsenic | 1.60 | 0.00800 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Barium | 19.0 | 0.00100 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | 6010B | SUB-1 |
| Calcium | 1960 | 0.0810 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Magnesium | 620 | 0.0360 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Potassium | 815 | 0.0600 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Sodium | 130 | 0.0430 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Cadmium | ND | 0.00100 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Chromium | 3.50 | 0.0910 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Mercury | ND | 0.0002500 | mg/kg | 1 | P5E2206 | 05/01/15 | 05/01/15 | 7471 | SUB-1 |
| Lead | 2.50 | 0.0110 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Selenium | ND | 0.00400 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |

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Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Cell 1 NS

5D16001-01 (Soil)

| Analyte | Result | PQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|------------------------------------|----|------|-----------|---|---------|----------|----------|-----------|--|
| C6-C12 | ND | 27.2 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/16/15 | TPH 8015M | |
| >C12-C28 | ND | 27.2 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/16/15 | TPH 8015M | |
| >C28-C35 | ND | 27.2 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/16/15 | TPH 8015M | |
| <i>Surrogate: 1-Chlorooctane</i> | | | | | | | | | |
| 83.3 % 70-130 | | | | | | | | | |
| <i>Surrogate: o-Terphenyl</i> | | | | | | | | | |
| 96.4 % 70-130 | | | | | | | | | |
| Total Petroleum Hydrocarbon C6-C35 | ND | 27.2 | mg/kg dry | 1 | [CALC] | 04/16/15 | 04/16/15 | calc | |

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Project Manager: Mark Larson

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Cell 3 NS

5D16001-02 (Soil)

| Analyte | Result | PQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Organics by GC

| | | | | | | | | |
|---------------------------------|--------|---------|-----------|---|---------|----------|----------|-----------|
| Benzene | ND | 0.00110 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Toluene | ND | 0.00220 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Ethylbenzene | ND | 0.00110 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Xylene (p/m) | ND | 0.00220 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Xylene (o) | ND | 0.00110 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Surrogate: 1,4-Difluorobenzene | 83.7 % | | 75-125 | | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Surrogate: 4-Bromofluorobenzene | 101 % | | 75-125 | | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | |
|------------------|------|-------|------------------|----|---------|----------|----------|---------------|
| Total Alkalinity | 4000 | 2.00 | mg/kg | 1 | P5E2205 | 04/21/15 | 04/21/15 | EPA 310.1M |
| Chloride | 33.7 | 1.10 | mg/kg dry | 1 | P5D1706 | 04/16/15 | 04/17/15 | EPA 300.0 |
| % Moisture | 9.0 | 0.1 | % | 1 | P5D1701 | 04/17/15 | 04/17/15 | % calculation |
| Sulfate | 148 | 0.500 | ng/kg dry wt. dr | 1 | P5D1706 | 04/16/15 | 04/16/15 | EPA 300.0 |
| TPH 418.1 | ND | 100 | mg/kg dry | 10 | P5E0606 | 05/05/15 | 05/05/15 | EPA 418.1 |
| | | | | | | | | SUB-3 |

Total Metals by EPA / Standard Methods

| | | | | | | | | | |
|-----------|------|-----------|-----------|---|---------|----------|----------|-----------|-------|
| Silver | ND | 0.00500 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Arsenic | 2.50 | 0.00800 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Barium | 33.0 | 0.00100 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | 6010B | SUB-1 |
| Calcium | 1090 | 0.0810 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Magnesium | 1430 | 0.0360 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Potassium | 1650 | 0.0600 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Sodium | 505 | 0.0430 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Cadmium | ND | 0.00100 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Chromium | 6.20 | 0.0910 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Mercury | ND | 0.0002500 | mg/kg | 1 | P5E2206 | 05/01/15 | 05/01/15 | 7471 | SUB-1 |
| Lead | 4.00 | 0.0110 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Selenium | ND | 0.00400 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |

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Project Number: 15-0121-01
Project Manager: Mark Larson

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Cell 3 NS

5D16001-02 (Soil)

| Analyte | Result | PQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|------------------------------------|----|------|-----------|---|---------|----------|----------|-----------|--|
| C6-C12 | ND | 27.5 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/16/15 | TPH 8015M | |
| >C12-C28 | ND | 27.5 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/16/15 | TPH 8015M | |
| >C28-C35 | ND | 27.5 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/16/15 | TPH 8015M | |
| <i>Surrogate: 1-Chlorooctane</i> | | | | | | | | | |
| 74.6 % 70-130 | | | | | | | | | |
| <i>Surrogate: o-Terphenyl</i> | | | | | | | | | |
| 88.8 % 70-130 | | | | | | | | | |
| Total Petroleum Hydrocarbon C6-C35 | ND | 27.5 | mg/kg dry | 1 | [CALC] | 04/16/15 | 04/16/15 | calc | |

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Cell 4 NS

5D16001-03 (Soil)

| Analyte | Result | PQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Organics by GC

| | | | | | | | | | |
|--|----|---------|-----------|--------|---------|----------|----------|-----------|--|
| Benzene | ND | 0.00110 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |
| Toluene | ND | 0.00220 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |
| Ethylbenzene | ND | 0.00110 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00220 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |
| Xylene (o) | ND | 0.00110 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |
| <i>Surrogate: 1,4-Difluorobenzene</i> | | 94.4 % | | 75-125 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 111 % | | 75-125 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | | |
|------------------|------|-------|-------------------|----|---------|----------|----------|---------------|-------|
| Total Alkalinity | 4000 | 2.00 | mg/kg | 1 | P5E2205 | 04/21/15 | 04/21/15 | EPA 310.1M | |
| Chloride | 70.0 | 1.10 | mg/kg dry | 1 | P5D1706 | 04/16/15 | 04/17/15 | EPA 300.0 | |
| % Moisture | 9.0 | 0.1 | % | 1 | P5D1701 | 04/17/15 | 04/17/15 | % calculation | |
| Sulfate | 262 | 0.500 | ug/kg dry wt. dr. | 1 | P5D1706 | 04/16/15 | 04/16/15 | EPA 300.0 | |
| TPH 418.1 | 158 | 100 | mg/kg dry | 10 | P5E0606 | 05/05/15 | 05/05/15 | EPA 418.1 | SUB-3 |

Total Metals by EPA / Standard Methods

| | | | | | | | | | |
|-----------|-------|-----------|-----------|---|---------|----------|----------|-----------|-------|
| Silver | ND | 0.00500 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Arsenic | 2.70 | 0.00800 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Barium | 82.0 | 0.00100 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | 6010B | SUB-1 |
| Calcium | 35200 | 0.0810 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Magnesium | 6920 | 0.0360 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Potassium | 1650 | 0.0600 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Sodium | 198 | 0.0430 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Cadmium | ND | 0.00100 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Chromium | 5.70 | 0.0910 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Mercury | ND | 0.0002500 | mg/kg | 1 | P5E2206 | 05/01/15 | 05/01/15 | 7471 | SUB-1 |
| Lead | 3.60 | 0.0110 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Selenium | ND | 0.00400 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |

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Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Mark Larson

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Cell 4 NS

5D16001-03 (Soil)

| Analyte | Result | PQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|------------------------------------|----|------|-----------|---|---------|----------|----------|-----------|--|
| C6-C12 | ND | 27.5 | mg/kg dry | 1 | PSD1704 | 04/16/15 | 04/16/15 | TPH 8015M | |
| >C12-C28 | ND | 27.5 | mg/kg dry | 1 | PSD1704 | 04/16/15 | 04/16/15 | TPH 8015M | |
| >C28-C35 | ND | 27.5 | mg/kg dry | 1 | PSD1704 | 04/16/15 | 04/16/15 | TPH 8015M | |
| <i>Surrogate: 1-Chlorooctane</i> | | | | | | | | | |
| 78.3 % 70-130 | | | | | | | | | |
| <i>Surrogate: o-Terphenyl</i> | | | | | | | | | |
| 92.7 % 70-130 | | | | | | | | | |
| Total Petroleum Hydrocarbon C6-C35 | ND | 27.5 | mg/kg dry | 1 | [CALC] | 04/16/15 | 04/16/15 | calc | |

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Cell 5 NS

5D16001-04 (Soil)

| Analyte | Result | PQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Organics by GC

| | | | | | | | | | |
|---------------------------------|--------|---------|-----------|---|---------|----------|----------|-----------|--|
| Benzene | ND | 0.00116 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |
| Toluene | ND | 0.00233 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |
| Ethylbenzene | ND | 0.00116 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00233 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |
| Xylene (o) | ND | 0.00116 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | 101 % | | 75-125 | | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | 84.8 % | | 75-125 | | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B | |

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | | |
|------------------|------|-------|-------------------|----|---------|----------|----------|---------------|-------|
| Total Alkalinity | 4500 | 2.00 | mg/kg | 1 | P5E2205 | 04/21/15 | 04/21/15 | EPA 310.1M | |
| Chloride | 100 | 1.16 | mg/kg dry | 1 | P5D1706 | 04/16/15 | 04/17/15 | EPA 300.0 | |
| % Moisture | 14.0 | 0.1 | % | 1 | P5D1701 | 04/17/15 | 04/17/15 | % calculation | |
| Sulfate | 62.8 | 0.500 | mg/kg dry wt. dr. | 1 | P5D1706 | 04/16/15 | 04/16/15 | EPA 300.0 | |
| TPH 418.1 | ND | 100 | mg/kg dry | 10 | P5E0606 | 05/05/15 | 05/05/15 | EPA 418.1 | SUB-3 |

Total Metals by EPA / Standard Methods

| | | | | | | | | | |
|-----------|-------|-----------|-----------|---|---------|----------|----------|-----------|-------|
| Silver | ND | 0.00500 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Arsenic | 2.00 | 0.00800 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Barium | 250 | 0.00100 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | 6010B | SUB-1 |
| Calcium | 23300 | 0.0810 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Magnesium | 1860 | 0.0360 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Potassium | 1020 | 0.0600 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Sodium | 2910 | 0.0430 | mg/kg dry | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Cadmium | ND | 0.00100 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Chromium | 4.20 | 0.0910 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Mercury | ND | 0.0002500 | mg/kg | 1 | P5E2206 | 05/01/15 | 05/01/15 | 7471 | SUB-1 |
| Lead | 2.60 | 0.0110 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |
| Selenium | ND | 0.00400 | mg/kg | 1 | P5E2206 | 04/30/15 | 04/30/15 | EPA 6010B | SUB-1 |

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Project Number: 15-0121-01
Project Manager: Mark Larson

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Cell 5 NS

5D16001-04 (Soil)

| Analyte | Result | PQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | | |
|---|----|------|-----------|---|---------|----------|----------|-----------|--|
| C6-C12 | ND | 29.1 | mg/kg dry | 1 | PSD1704 | 04/16/15 | 04/16/15 | TPH 8015M | |
| >C12-C28 | ND | 29.1 | mg/kg dry | 1 | PSD1704 | 04/16/15 | 04/16/15 | TPH 8015M | |
| >C28-C35 | ND | 29.1 | mg/kg dry | 1 | PSD1704 | 04/16/15 | 04/16/15 | TPH 8015M | |
| <i>Surrogate: 1-Chlorooctane</i> | | | | | | | | | |
| 74.0 % 70-130 PSD1704 04/16/15 04/16/15 TPH 8015M | | | | | | | | | |
| <i>Surrogate: o-Terphenyl</i> | | | | | | | | | |
| 87.1 % 70-130 PSD1704 04/16/15 04/16/15 TPH 8015M | | | | | | | | | |
| Total Petroleum Hydrocarbon C6-C35 | ND | 29.1 | mg/kg dry | 1 | [CALC] | 04/16/15 | 04/16/15 | calc | |

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Cell 1 Comp

5D16001-05 (Soil)

| Analyte | Result | PQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Organics by GC

| | | | | | | | | |
|--|----|---------|-----------|--------|---------|----------|----------|-----------|
| Benzene | ND | 0.00111 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Toluene | ND | 0.00222 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Ethylbenzene | ND | 0.00111 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Xylene (p/m) | ND | 0.00222 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Xylene (o) | ND | 0.00111 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 114 % | | 75-125 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| <i>Surrogate: 1,4-Difluorobenzene</i> | | 82.8 % | | 75-125 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | |
|-------------------|-------------|------|-----------|---|---------|----------|----------|---------------|
| Chloride | 198 | 1.11 | mg/kg dry | 1 | P5D1706 | 04/16/15 | 04/17/15 | EPA 300.0 |
| % Moisture | 10.0 | 0.1 | % | 1 | P5D1701 | 04/17/15 | 04/17/15 | % calculation |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | |
|------------------------------------|----|--------|-----------|--------|---------|----------|----------|-----------|
| C6-C12 | ND | 27.8 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/16/15 | TPH 8015M |
| >C12-C28 | ND | 27.8 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/16/15 | TPH 8015M |
| >C28-C35 | ND | 27.8 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/16/15 | TPH 8015M |
| <i>Surrogate: 1-Chlorooctane</i> | | 78.5 % | | 70-130 | P5D1704 | 04/16/15 | 04/16/15 | TPH 8015M |
| <i>Surrogate: o-Terphenyl</i> | | 95.0 % | | 70-130 | P5D1704 | 04/16/15 | 04/16/15 | TPH 8015M |
| Total Petroleum Hydrocarbon C6-C35 | ND | 27.8 | mg/kg dry | 1 | [CALC] | 04/16/15 | 04/16/15 | calc |

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Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Mark Larson

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Cell 3 Comp

5D16001-06 (Soil)

| Analyte | Result | PQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Organics by GC

| | | | | | | | | |
|--|--------|---------|-----------|---|---------|----------|----------|-----------|
| Benzene | ND | 0.00114 | mg/kg dry | 1 | PSD1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Toluene | ND | 0.00227 | mg/kg dry | 1 | PSD1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Ethylbenzene | ND | 0.00114 | mg/kg dry | 1 | PSD1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Xylene (p/m) | ND | 0.00227 | mg/kg dry | 1 | PSD1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Xylene (o) | ND | 0.00114 | mg/kg dry | 1 | PSD1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 100 % | 75-125 | | | PSD1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| <i>Surrogate: 1,4-Difluorobenzene</i> | 90.3 % | 75-125 | | | PSD1702 | 04/16/15 | 04/16/15 | EPA 8021B |

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | |
|------------|------|------|-----------|---|---------|----------|----------|---------------|
| Chloride | 230 | 1.14 | mg/kg dry | 1 | PSD1706 | 04/16/15 | 04/17/15 | EPA 300.0 |
| % Moisture | 12.0 | 0.1 | % | 1 | PSD1701 | 04/17/15 | 04/17/15 | % calculation |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | |
|------------------------------------|--------|--------|-----------|---|---------|----------|----------|-----------|
| C6-C12 | ND | 28.4 | mg/kg dry | 1 | PSD1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| >C12-C28 | ND | 28.4 | mg/kg dry | 1 | PSD1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| >C28-C35 | ND | 28.4 | mg/kg dry | 1 | PSD1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| <i>Surrogate: 1-Chlorooctane</i> | 76.5 % | 70-130 | | | PSD1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| <i>Surrogate: o-Terphenyl</i> | 89.1 % | 70-130 | | | PSD1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| Total Petroleum Hydrocarbon C6-C35 | ND | 28.4 | mg/kg dry | 1 | [CALC] | 04/16/15 | 04/17/15 | calc |

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Cell 4 Comp

5D16001-07 (Soil)

| Analyte | Result | PQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Organics by GC

| | | | | | | | | |
|--|----|---------|-----------|--------|---------|----------|----------|-----------|
| Benzene | ND | 0.00115 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Toluene | ND | 0.00230 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Ethylbenzene | ND | 0.00115 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Xylene (p/m) | ND | 0.00230 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Xylene (o) | ND | 0.00115 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 107 % | | 75-125 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| <i>Surrogate: 1,4-Difluorobenzene</i> | | 80.8 % | | 75-125 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | |
|-------------------|-------------|------|-----------|---|---------|----------|----------|---------------|
| Chloride | 133 | 1.15 | mg/kg dry | 1 | P5D1706 | 04/16/15 | 04/17/15 | EPA 300.0 |
| % Moisture | 13.0 | 0.1 | % | 1 | P5D1701 | 04/17/15 | 04/17/15 | % calculation |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | |
|------------------------------------|----|--------|-----------|--------|---------|----------|----------|-----------|
| C6-C12 | ND | 28.7 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| >C12-C28 | ND | 28.7 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| >C28-C35 | ND | 28.7 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| <i>Surrogate: 1-Chlorooctane</i> | | 80.0 % | | 70-130 | P5D1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| <i>Surrogate: o-Terphenyl</i> | | 93.9 % | | 70-130 | P5D1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| Total Petroleum Hydrocarbon C6-C35 | ND | 28.7 | mg/kg dry | 1 | [CALC] | 04/16/15 | 04/17/15 | calc |

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Project Number: 15-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Cell 5 Comp

5D16001-08 (Soil)

| Analyte | Result | PQL | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|-----|-------|----------|-------|----------|----------|--------|-------|

Permian Basin Environmental Lab, L.P.

Organics by GC

| | | | | | | | | |
|--|----|---------|-----------|--------|---------|----------|----------|-----------|
| Benzene | ND | 0.00116 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Toluene | ND | 0.00233 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Ethylbenzene | ND | 0.00116 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Xylene (p/m) | ND | 0.00233 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| Xylene (o) | ND | 0.00116 | mg/kg dry | 1 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| <i>Surrogate: 1,4-Difluorobenzene</i> | | 81.8 % | | 75-125 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |
| <i>Surrogate: 4-Bromofluorobenzene</i> | | 105 % | | 75-125 | P5D1702 | 04/16/15 | 04/16/15 | EPA 8021B |

General Chemistry Parameters by EPA / Standard Methods

| | | | | | | | | |
|------------|------|------|-----------|----|---------|----------|----------|---------------|
| Chloride | 1070 | 29.1 | mg/kg dry | 25 | P5D1706 | 04/16/15 | 04/17/15 | EPA 300.0 |
| % Moisture | 14.0 | 0.1 | % | 1 | P5D1701 | 04/17/15 | 04/17/15 | % calculation |

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

| | | | | | | | | |
|------------------------------------|----|--------|-----------|--------|---------|----------|----------|-----------|
| C6-C12 | ND | 29.1 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| >C12-C28 | ND | 29.1 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| >C28-C35 | ND | 29.1 | mg/kg dry | 1 | P5D1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| <i>Surrogate: 1-Chlorooctane</i> | | 92.7 % | | 70-130 | P5D1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| <i>Surrogate: o-Terphenyl</i> | | 110 % | | 70-130 | P5D1704 | 04/16/15 | 04/17/15 | TPH 8015M |
| Total Petroleum Hydrocarbon C6-C35 | ND | 29.1 | mg/kg dry | 1 | [CALC] | 04/16/15 | 04/17/15 | calc |

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Project Number: 15-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch PSD1702 - General Preparation (GC)

| Blank (PSD1702-BLK1) Prepared & Analyzed: 04/16/15 | | | | | | |
|--|------|---------|-----------|------|------|--------|
| Benzene | ND | 0.00100 | mg/kg wet | | | |
| Toluene | ND | 0.00200 | " | | | |
| Ethylbenzene | ND | 0.00100 | " | | | |
| Xylene (p/m) | ND | 0.00200 | " | | | |
| Xylene (o) | ND | 0.00100 | " | | | |
| Surrogate: 1,4-Difluorobenzene | 58.4 | | ug/kg | 60.0 | 97.4 | 75-125 |
| Surrogate: 4-Bromofluorobenzene | 61.7 | | " | 60.0 | 103 | 75-125 |

| LCS (PSD1702-BSI) Prepared & Analyzed: 04/16/15 | | | | | | |
|---|--------|---------|-----------|-------|------|--------|
| Benzene | 0.0998 | 0.00100 | mg/kg wet | 0.100 | 99.8 | 70-130 |
| Toluene | 0.110 | 0.00200 | " | 0.100 | 110 | 70-130 |
| Ethylbenzene | 0.111 | 0.00100 | " | 0.100 | 111 | 70-130 |
| Xylene (p/m) | 0.218 | 0.00200 | " | 0.200 | 109 | 70-130 |
| Xylene (o) | 0.105 | 0.00100 | " | 0.100 | 105 | 70-130 |
| Surrogate: 1,4-Difluorobenzene | 63.2 | | ug/kg | 60.0 | 105 | 75-125 |
| Surrogate: 4-Bromofluorobenzene | 62.3 | | " | 60.0 | 104 | 75-125 |

| LCS Dup (PSD1702-BSD1) Prepared & Analyzed: 04/16/15 | | | | | | |
|--|-------|---------|-----------|-------|------|--------|
| Benzene | 0.103 | 0.00100 | mg/kg wet | 0.100 | 103 | 70-130 |
| Toluene | 0.112 | 0.00200 | " | 0.100 | 112 | 70-130 |
| Ethylbenzene | 0.127 | 0.00100 | " | 0.100 | 127 | 70-130 |
| Xylene (p/m) | 0.234 | 0.00200 | " | 0.200 | 117 | 70-130 |
| Xylene (o) | 0.120 | 0.00100 | " | 0.100 | 120 | 70-130 |
| Surrogate: 1,4-Difluorobenzene | 54.2 | | ug/kg | 60.0 | 90.3 | 75-125 |
| Surrogate: 4-Bromofluorobenzene | 68.4 | | " | 60.0 | 114 | 75-125 |

| Matrix Spike (PSD1702-MS1) Source: SD16006-02 Prepared: 04/16/15 Analyzed: 04/17/15 | | | | | | |
|---|-------|---------|-----------|-------|------|--------|
| Benzene | 0.111 | 0.00118 | mg/kg dry | 0.118 | ND | 94.0 |
| Toluene | 0.112 | 0.00235 | " | 0.118 | ND | 95.4 |
| Ethylbenzene | 0.113 | 0.00118 | " | 0.118 | ND | 96.3 |
| Xylene (p/m) | 0.229 | 0.00235 | " | 0.235 | ND | 97.1 |
| Xylene (o) | 0.114 | 0.00118 | " | 0.118 | ND | 96.5 |
| Surrogate: 4-Bromofluorobenzene | 58.5 | | ug/kg | 60.0 | 97.5 | 75-125 |
| Surrogate: 1,4-Difluorobenzene | 56.0 | | " | 60.0 | 93.4 | 75-125 |

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Project Manager: Mark Larson

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|---------|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|---------|-----------|-------|

Batch PSD1702 - General Preparation (GC)

| Matrix Spike Dup (PSD1702-MSD1) | Source: 5D16006-02 | Prepared: 04/16/15 Analyzed: 04/17/15 | | |
|---------------------------------|--------------------|---------------------------------------|-----------|-------|
| Benzene | 0.104 | 0.00118 | mg/kg dry | 0.118 |
| Toluene | 0.111 | 0.00235 | " | 0.118 |
| Ethylbenzene | 0.101 | 0.00118 | " | 0.118 |
| Xylene (p/m) | 0.199 | 0.00235 | " | 0.235 |
| Xylene (o) | 0.0942 | 0.00118 | " | 0.118 |
| Surrogate: 4-Bromofluorobenzene | 60.7 | | ug/kg | 60.0 |
| Surrogate: 1,4-Difluorobenzene | 65.1 | | " | 60.0 |

Batch PSD1705 - General Preparation (GC)

| Blank (PSD1705-BLK1) | Prepared: 04/16/15 Analyzed: 04/17/15 | | | | |
|---------------------------------|---------------------------------------|---------|-----------|--------|------|
| Benzene | ND | 0.00100 | mg/kg wet | | |
| Toluene | ND | 0.00200 | " | | |
| Ethylbenzene | ND | 0.00100 | " | | |
| Xylene (p/m) | ND | 0.00200 | " | | |
| Xylene (o) | ND | 0.00100 | " | | |
| Surrogate: 1,4-Difluorobenzene | 0.0493 | | " | 0.0600 | 82.2 |
| Surrogate: 4-Bromofluorobenzene | 0.0626 | | " | 0.0600 | 104 |

LCS (PSD1705-BS1)

| LCS (PSD1705-BS1) | Prepared: 04/16/15 Analyzed: 04/17/15 | | | | |
|---------------------------------|---------------------------------------|---------|-----------|--------|------|
| Benzene | 0.0987 | 0.00100 | mg/kg wet | 0.100 | 98.7 |
| Toluene | 0.112 | 0.00200 | " | 0.100 | 112 |
| Ethylbenzene | 0.117 | 0.00100 | " | 0.100 | 117 |
| Xylene (p/m) | 0.227 | 0.00200 | " | 0.200 | 113 |
| Xylene (o) | 0.108 | 0.00100 | " | 0.100 | 108 |
| Surrogate: 4-Bromofluorobenzene | 0.0673 | | " | 0.0600 | 112 |
| Surrogate: 1,4-Difluorobenzene | 0.0625 | | " | 0.0600 | 104 |

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch PSD1705 - General Preparation (GC)

LCS Dup (PSD1705-BSD1)

| | | Prepared: 04/16/15 Analyzed: 04/17/15 | | | | | | | |
|--|---------------|---------------------------------------|-----------|---------------|------------|---------------|-------|----|--|
| Benzene | 0.0975 | 0.00100 | mg/kg wet | 0.100 | 97.5 | 70-130 | 1.23 | 20 | |
| Toluene | 0.109 | 0.00200 | " | 0.100 | 109 | 70-130 | 2.46 | 20 | |
| Ethylbenzene | 0.116 | 0.00100 | " | 0.100 | 116 | 70-130 | 0.532 | 20 | |
| Xylene (p/m) | 0.225 | 0.00200 | " | 0.200 | 112 | 70-130 | 0.881 | 20 | |
| Xylene (o) | 0.111 | 0.00100 | " | 0.100 | 111 | 70-130 | 2.58 | 20 | |
| <i>Surrogate: 1,4-Difluorobenzene</i> | <i>0.0617</i> | | " | <i>0.0600</i> | <i>103</i> | <i>75-125</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0678</i> | | " | <i>0.0600</i> | <i>113</i> | <i>75-125</i> | | | |

Duplicate (PSD1705-DUP1)

| | | Source: SD16011-07 | | Prepared: 04/16/15 Analyzed: 04/17/15 | | | | | |
|--|---------------|--------------------|-----------|---------------------------------------|-------------|---------------|------|----|----|
| Benzene | 0.170 | 0.0230 | mg/kg dry | | 0.0761 | | 76.5 | 20 | R3 |
| Toluene | 1.24 | 0.0460 | " | | 0.620 | | 67.0 | 20 | R3 |
| Ethylbenzene | 1.33 | 0.0230 | " | | 1.10 | | 18.6 | 20 | |
| Xylene (p/m) | 3.43 | 0.0460 | " | | 2.74 | | 22.2 | 20 | R3 |
| Xylene (o) | 0.339 | 0.0230 | " | | 0.316 | | 7.02 | 20 | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0712</i> | | " | <i>0.0690</i> | <i>103</i> | <i>75-125</i> | | | |
| <i>Surrogate: 1,4-Difluorobenzene</i> | <i>0.0630</i> | | " | <i>0.0690</i> | <i>91.3</i> | <i>75-125</i> | | | |

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Project Manager: Mark Larson

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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|-----------|-------------|---------|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|-----------|-------------|---------|-----------|-------|

Batch PSD1701 - * DEFAULT PREP *****

| Blank (PSD1701-BLK1) | | | | Prepared & Analyzed: 04/17/15 | | | | |
|--------------------------|------|-----|---|-------------------------------|--|--|------|----|
| % Moisture | ND | 0.1 | % | | | | | |
| Duplicate (PSD1701-DUP1) | | | | | Source: 5D16001-01 Prepared & Analyzed: 04/17/15 | | | |
| % Moisture | 8.0 | 0.1 | % | | 8.0 | | 0.00 | 20 |
| Duplicate (PSD1701-DUP2) | | | | | Source: 5D16009-01 Prepared & Analyzed: 04/17/15 | | | |
| % Moisture | 14.0 | 0.1 | % | | 15.0 | | 6.90 | 20 |

Batch PSD1706 - * DEFAULT PREP *****

| Blank (PSD1706-BLK1) | | | | Prepared: 04/16/15 Analyzed: 04/17/15 | | | | |
|--------------------------|------|-------|----------------------|--|-------------------------------|------|--------|-------|
| Chloride | ND | 1.00 | mg/kg wet | | | | | |
| Sulfate | ND | 0.500 | mg/kg dry wt. wet | | | | | |
| LCS (PSD1706-BS1) | | | | | Prepared & Analyzed: 04/16/15 | | | |
| Sulfate | 105 | 0.500 | mg/kg dry wt. wet | | 100 | 105 | 80-120 | |
| Chloride | 100 | 1.00 | mg/kg wet | | 100 | 100 | 80-120 | |
| LCS Dup (PSD1706-BSD1) | | | | | Prepared & Analyzed: 04/16/15 | | | |
| Sulfate | 106 | 0.500 | mg/kg dry wt. wet | | 100 | 106 | 80-120 | 1.54 |
| Chloride | 99.7 | 1.00 | mg/kg wet | | 100 | 99.7 | 80-120 | 0.699 |
| Duplicate (PSD1706-DUP1) | | | | Source: 5D14007-01 Prepared: 04/16/15 Analyzed: 04/17/15 | | | | |
| Chloride | 398 | 1.04 | mg/kg dry | | 417 | | 4.66 | 20 |
| Sulfate | 16.1 | 0.500 | mg/kg dry wt. dry | | 12.6 | | 23.9 | 20 |
| Duplicate (PSD1706-DUP2) | | | | Source: 5D16008-02 Prepared: 04/16/15 Analyzed: 04/17/15 | | | | |
| Chloride | 3330 | 29.1 | mg/kg dry | | 3430 | | 3.17 | 20 |
| Sulfate | 462 | 12.5 | mg/kg dry wt. dry | | 462 | | 0.00 | 20 |

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|-----------|-------------|---------|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|-----------|-------------|---------|-----------|-------|

Batch PSE2205 - * DEFAULT PREP *****

Blank (PSE2205-BLK1)

Prepared & Analyzed: 04/21/15

Total Alkalinity ND 2.00 mg/kg

Duplicate (PSE2205-DUP1)

Source: 5D16001-04 Prepared & Analyzed: 04/21/15

Total Alkalinity 4500 2.00 mg/kg 4500 0.00 20

Larson & Associates, Inc.
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Midland TX, 79710

Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

| | |
|-------|---|
| SUB-3 | Subcontract of analyte/analysis to Cardinal Laboratories. |
| SUB-1 | Subcontract of analyte/analysis to Test America TCEQ/NELAC # T104704223-10-6-TX |
| R3 | The RPD exceeded the acceptance limit due to sample matrix effects. |
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| LCS | Laboratory Control Spike |
| MS | Matrix Spike |
| Dup | Duplicate |

Report Approved By:

Date: 5/22/2015

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

CHAIN-OF-CUSTODY

Arson & Associates, Inc.
Environmental Consultants

Data Reported to:

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 4/15/2015PAGE 1 OF 1

Page 21 of 48

PO #: _____ LAB WORK ORDER #:

PROJECT LOCATION OR NAME: Artesia Arachan LandfillLAI PROJECT #: 15-0121-01COLLECTOR: Sarah S.

| TRRP report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | S=SOIL W=WATER A=AIR | P=PAINT SL=SLUDGE OT=OTHER | TIME ZONE: Time zone/State: <u>NM</u> | Field Sample I.D. | Lab # | Date | Time | Matrix | # of Containers | PRESERVATION | | | | ANALYSES | | | | | | | | | | | | | | FIELD NOTES | | | | | | | | |
|---|----------------------------|----------------------------------|---|----------------------|-------|------|------|--------|-----------------|--------------|------------------|---|-------------------------------|----------|-------------|-------------------------------|-------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|--|--|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|--|-----------------------------------|--|--|--|--|-----------------------------------|--|--|---------------------------------------|
| | | | | | | | | | | HCl | HNO ₃ | H ₂ SO ₄ <input type="checkbox"/> | NaOH <input type="checkbox"/> | ICE | UNPRESERVED | BTEX <input type="checkbox"/> | MTBE <input type="checkbox"/> | TPH 418.14 <input type="checkbox"/> | TPH 1005 <input type="checkbox"/> | TPH 1006 <input type="checkbox"/> | GASOLINE MOD 8015 <input type="checkbox"/> | DIESEL MOD 8015 <input type="checkbox"/> | VOC 8260 <input type="checkbox"/> | VOC 8270 <input type="checkbox"/> | PAH 8270 <input type="checkbox"/> | HOLDPAH <input type="checkbox"/> | TOTAL METALS (RCRA) <input type="checkbox"/> | TCPP VOC <input type="checkbox"/> | TCPP SEMI-VOC <input type="checkbox"/> | TCPP OTHER LIST <input type="checkbox"/> | TCPP D.W. 200.6 <input type="checkbox"/> | TCPP TOTAL HERB <input type="checkbox"/> | TCPP TOX <input type="checkbox"/> | TCPP FLASHPOINT <input type="checkbox"/> | TCPP % MOISTURE <input type="checkbox"/> | TCPP CYANIDE <input type="checkbox"/> |
| Cell 1 NS | 01 | 4/14/15 | 11:00 | S | 1 | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cell 3 NS | 02 | | 12:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cell 4 NS | 03 | | 12:30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cell 5 NS | 04 | | 1:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cell 1 COMP | 05 | | 1:15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cell 3 COMP | 06 | | 1:45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cell 4 COMP | 07 | | 2:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cell 5 COMP | 08 | | 2:15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

TURN AROUND TIME

NORMAL 1 DAY 2 DAY OTHER

LABORATORY USE ONLY:

RECEIVING TEMP: 70 THERM #: NCFCUSTODY SEALS - BROKEN INTACT NOT USED CARRIER BILL # _____ HAND DELIVEREDLA
I
NCF



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

May 05, 2015

Brent Barron

Permian Basin Environmental Lab, LP

10014 SCR 1213

Midland, TX 79706

RE: SOIL SAMPLES

Enclosed are the results of analyses for samples received by the laboratory on 04/23/15 10:45.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

| | |
|------------------|---|
| Method SM 9223-B | Total Coliform and E. coli (Colilert MMO-MUG) |
| Method EPA 524.2 | Regulated VOCs and Total Trihalomethanes (TTHM) |
| Method EPA 552.2 | Total Haloacetic Acids (HAA-5) |

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



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

Analytical Results For:

| | | |
|--|---|------------------------------|
| Permian Basin Environmental Lab, LP 10014 SCR 1213 Midland TX, 79706 | Project: SOIL SAMPLES Project Number: NONE GIVEN Project Manager: Brent Barron Fax To: Not Given | Reported: 05-May-15 15:35 |
|--|---|------------------------------|

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|-----------------|-----------------|
| 5D16001-01 | H501051-01 | Soil | 16-Apr-15 11:50 | 23-Apr-15 10:45 |
| 5D16001-02 | H501051-02 | Soil | 16-Apr-15 12:00 | 23-Apr-15 10:45 |
| 5D16001-03 | H501051-03 | Soil | 16-Apr-15 12:05 | 23-Apr-15 10:45 |
| 5D16001-04 | H501051-04 | Soil | 16-Apr-15 12:08 | 23-Apr-15 10:45 |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland TX, 79706

Project: SOIL SAMPLES
Project Number: NONE GIVEN
Project Manager: Brent Barron
Fax To: Not Given

Reported:
05-May-15 15:35

5D16001-01

H501051-01 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Organic Compounds

TPH 418.1 ND 100 mg/kg 10 5050504 CK 05-May-15 418.1

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland TX, 79706

Project: SOIL SAMPLES
Project Number: NONE GIVEN
Project Manager: Brent Barron
Fax To: Not Given

Reported:
05-May-15 15:35

5D16001-02

H501051-02 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Organic Compounds

TPH 418.1 ND 100 mg/kg 10 5050504 CK 05-May-15 418.1

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland TX, 79706

Project: SOIL SAMPLES
Project Number: NONE GIVEN
Project Manager: Brent Barron
Fax To: Not Given

Reported:
05-May-15 15:35

SD16001-03

H501051-03 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Organic Compounds

TPH 418.1 144 100 mg/kg 10 5050504 CK 05-May-15 418.1

Cardinal Laboratories

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Analytical Results For:

Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland TX, 79706

Project: SOIL SAMPLES
Project Number: NONE GIVEN
Project Manager: Brent Barron
Fax To: Not Given

Reported:
05-May-15 15:35

5D16001-04

H501051-04 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

Cardinal Laboratories

Organic Compounds

TPH 418.1 ND 100 mg/kg 10 5050504 CK 05-May-15 418.1

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

| | | |
|--|---|------------------------------|
| Permian Basin Environmental Lab, LP 10014 SCR 1213 Midland TX, 79706 | Project: SOIL SAMPLES Project Number: NONE GIVEN Project Manager: Brent Barron Fax To: Not Given | Reported: 05-May-15 15:35 |
|--|---|------------------------------|

Organic Compounds - Quality Control**Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD RPD | Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|---------|-------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|---------|-------|-------|

Batch 5050504 - Solvent Extraction

| | | | | | | | | | | |
|--|------|-----|-------|---------------------------|------|-----|--------|------|----|---|
| Blank (5050504-BLK1) | | | | | | | | | | Prepared & Analyzed: 05-May-15 |
| TPH 418.1 | ND | 100 | mg/kg | | | | | | | |
| LCS (5050504-BS1) | | | | | | | | | | Prepared & Analyzed: 05-May-15 |
| TPH 418.1 | 5020 | 100 | mg/kg | 5000 | | 100 | 70-130 | | | |
| LCS Dup (5050504-BSD1) | | | | | | | | | | Prepared & Analyzed: 05-May-15 |
| TPH 418.1 | 5370 | 100 | mg/kg | 5000 | | 107 | 70-130 | 6.84 | 20 | |
| Matrix Spike (5050504-MS1) | | | | Source: H501051-01 | | | | | | Prepared & Analyzed: 05-May-15 |
| TPH 418.1 | 5510 | 100 | mg/kg | 5000 | 39.7 | 109 | 70-130 | | | |
| Matrix Spike Dup (5050504-MSD1) | | | | Source: H501051-01 | | | | | | Prepared & Analyzed: 05-May-15 |
| TPH 418.1 | 5400 | 100 | mg/kg | 5000 | 39.7 | 107 | 70-130 | 1.89 | 20 | |

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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 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
Celey D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Brent Barron
Company Name PBEL
Company Address: 10014 SCR 1213
City/State/Zip: Midland Texas
Telephone No: 432-661-4184 Fax No: _____
Sampler Signature: N/A e-mail: brentbarron@pbelab.com

Project Name: SUBCONTRACT

Project #: _____

Project Loc: _____

PO #: _____

Report Format: Standard TRRP NPDES

(lab use only)
ORDER #: H501051

| LAB# (lab use only) | FIELD CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | Field Filtered | Total # of Containers | Preservation & Wt of Containers | | | | | | | | WATER | | | | | | | | |
|---------------------|------------|-----------------|--------------|--------------|--------------|----------------|-----------------------|---------------------------------|------------------|------|-----|--------------------------------|------|---|------|-----------|---------------------|-------------|------------------|----------------|------------------|---------------|--|---|
| | | | | | | | | Ice | HNO ₃ | NaOH | HCl | H ₂ SO ₄ | NaOH | Na ₂ S ₂ O ₃ | None | NaOH/ZnAc | DW - Drinking Water | SL - Sludge | GW - Groundwater | S - Soil/Solid | NP - Non-potable | Specify Other | | |
| 1 | 5D16001-01 | | | 04/16/15 | 1150 | | 1 | x | | | | | | | | | S | | x | | | | | X |
| 2 | 5D16001-02 | | | 04/16/15 | 1200 | | 2 | x | | | | | | | | | S | | x | | | | | X |
| 3 | 5D16001-03 | | | 04/16/15 | 1205 | | 3 | x | | | | | | | | | S | | x | | | | | X |
| 4 | 5D16001-04 | | | 04/16/15 | 1208 | | 4 | x | | | | | | | | | S | | x | | | | | X |
| 5 | 5D16001-05 | | | 04/16/15 | 1211 | | 5 | x | | | | | | | | | S | | x | | | | | X |
| 6 | 5D16001-06 | | | 04/16/15 | 1215 | | 6 | x | | | | | | | | | S | | x | | | | | X |
| 7 | 5D16001-07 | | | 04/16/15 | 1220 | | 7 | x | | | | | | | | | S | | x | | | | | X |
| 8 | 5D16001-08 | | | 04/16/15 | 1225 | | 8 | x | | | | | | | | | S | | x | | | | | X |

Special Instructions:

Laboratory Comments:

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VOCs Free of Headspace?

Custody seals on container(s)

Comments made on order(s)

Sample Hand Delivered

by Sampler/Client Rep. ?

Temperature Upon Receipt:

Received: 29 °C

| | | | | | | | | |
|----------------------------------|-----------------------------|--------------|------------------------------------|-----------------|---------------|--|-------------------------------------|-----------|
| Relinquished by: Brent Barron | Date 4/22/15 04/26/15 | Time 1400 | Received by: <i>Joti Benson</i> | Date 4/23/15 | Time 10:45 | Seals on container(s) Custody seals on container(s) Custody seals on cooler(s) | <input checked="" type="checkbox"/> | N |
| Relinquished by: | Date | Time | Received by: | Date | Time | Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS DHL | <input type="checkbox"/> | N |
| Relinquished by: | Date | Time | Received by: | Date | Time | Temperature Upon Receipt: Received: 27 °C | <input checked="" type="checkbox"/> | Lone Star |

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-110701-1
Client Project/Site: 5D16001-01-02-03-04

For:
Permian Basin Environmental Lab LP
10014 South County Road 1213
Midland, Texas 79706

Attn: Brent Barron

C. Lance Tigrett

Authorized for release by:
5/7/2015 5:51:16 PM

Lance Tigrett, Project Manager I
(713)690-4444
lance.tigrett@testamericainc.com

LINKS

Review your project
results through

Total Access

Have a Question?

Ask
The
Expert

Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Permian Basin Environmental Lab LP
Project/Site: 5D16001-01-02-03-04

TestAmerica Job ID: 600-110701-1

Job ID: 600-110701-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-110701-1

Comments

No additional comments.

Receipt

The samples were received on 4/29/2015 10:07 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5° C.

Metals

Method 6010B: The method blank for Prep Batch 161389 contained Barium and Sodium above the method detection limit. These target analytes concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The sample duplicate (DUP) precision for Prep Batch 161389 was outside control limits for Magnesium. Sample non-homogeneity is suspected.

Method 6010B, 6010C: The following samples were diluted due to the abundance of non-target analytes: 5D16001-03 (600-110701-3), (600-110701-A-3-B DU) and (600-110701-A-3-C MS). Elevated reporting limits (RLs) are provided.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Method Summary

Client: Permian Basin Environmental Lab LP
Project/Site: 5D16001-01-02-03-04

TestAmerica Job ID: 600-110701-1

| Method | Method Description | Protocol | Laboratory |
|--------|--------------------|----------|------------|
| 6010B | Metals (ICP) | SW846 | TAL HOU |
| 7471A | Mercury (CVAA) | SW846 | TAL HOU |
| 2540B | Percent Moisture | SM20 | TAL HOU |

Protocol References:

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

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TestAmerica Houston

Sample Summary

Client: Permian Basin Environmental Lab LP
Project/Site: 5D16001-01-02-03-04

TestAmerica Job ID: 600-110701-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 600-110701-1 | 5D16001-01 | Solid | 04/14/15 11:00 | 04/29/15 10:07 |
| 600-110701-2 | 5D16001-02 | Solid | 04/14/15 12:00 | 04/29/15 10:07 |
| 600-110701-3 | 5D16001-03 | Solid | 04/14/15 12:30 | 04/29/15 10:07 |
| 600-110701-4 | 5D16001-04 | Solid | 04/14/15 13:00 | 04/29/15 10:07 |

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Client Sample Results

Client: Permian Basin Environmental Lab LP
 Project/Site: 5D16001-01-02-03-04

TestAmerica Job ID: 600-110701-1

Client Sample ID: 5D16001-01

Date Collected: 04/14/15 11:00

Date Received: 04/29/15 10:07

Lab Sample ID: 600-110701-1

Matrix: Solid

Percent Solids: 94.3

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Cadmium | 0.066 | J | 0.25 | 0.026 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:30 | 1 |
| Barium | 19 | B | 1.0 | 0.031 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:30 | 1 |
| Silver | 0.12 | U | 0.41 | 0.12 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:30 | 1 |
| Arsenic | 1.6 | | 1.0 | 0.22 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:30 | 1 |
| Lead | 2.5 | | 0.51 | 0.11 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:30 | 1 |
| Selenium | 0.26 | U | 2.0 | 0.26 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:30 | 1 |
| Chromium | 3.5 | | 0.51 | 0.052 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:30 | 1 |
| Sodium | 120 | B | 100 | 0.90 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:30 | 1 |
| Potassium | 750 | | 100 | 11 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:30 | 1 |
| Calcium | 1800 | | 100 | 0.88 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:30 | 1 |
| Magnesium | 570 | | 100 | 2.0 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:30 | 1 |

Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 3.6 | U | 17 | 3.6 | ug/Kg | ☒ | 05/01/15 09:57 | 05/01/15 17:04 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Percent Moisture | 5.7 | | 1.0 | 1.0 | % | | | 05/04/15 13:07 | 1 |
| Percent Solids | 94 | | 1.0 | 1.0 | % | | | 05/04/15 13:07 | 1 |

Client Sample ID: 5D16001-02

Date Collected: 04/14/15 12:00

Date Received: 04/29/15 10:07

Lab Sample ID: 600-110701-2

Matrix: Solid

Percent Solids: 91.9

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Cadmium | 0.069 | J | 0.27 | 0.027 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:33 | 1 |
| Barium | 33 | B | 1.1 | 0.032 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:33 | 1 |
| Silver | 0.13 | U | 0.43 | 0.13 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:33 | 1 |
| Arsenic | 2.5 | | 1.1 | 0.23 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:33 | 1 |
| Lead | 4.0 | | 0.53 | 0.11 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:33 | 1 |
| Selenium | 0.28 | U | 2.1 | 0.28 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:33 | 1 |
| Chromium | 6.2 | | 0.53 | 0.054 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:33 | 1 |
| Sodium | 460 | B | 110 | 0.94 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:33 | 1 |
| Potassium | 1500 | | 110 | 12 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:33 | 1 |
| Calcium | 990 | | 110 | 0.92 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:33 | 1 |
| Magnesium | 1300 | | 110 | 2.0 | mg/Kg | ☒ | 04/30/15 12:38 | 04/30/15 16:33 | 1 |

Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 4.5 | J | 18 | 3.8 | ug/Kg | ☒ | 05/01/15 09:57 | 05/01/15 17:11 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Percent Moisture | 8.1 | | 1.0 | 1.0 | % | | | 05/04/15 13:07 | 1 |
| Percent Solids | 92 | | 1.0 | 1.0 | % | | | 05/04/15 13:07 | 1 |

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Client Sample Results

Client Permian Basin Environmental Lab LP
Project/Site: 5D16001-01-02-03-04

TestAmerica Job ID: 600-110701-1

Client Sample ID: 5D16001-03

Date Collected: 04/14/15 12:30

Date Received: 04/29/15 10:07

Lab Sample ID: 600-110701-3

Matrix: Solid

Percent Solids: 92.9

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Cadmium | 0.10 | J | 0.27 | 0.027 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:35 | 1 |
| Barium | 82 | B | 1.1 | 0.032 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:35 | 1 |
| Silver | 0.13 | U | 0.43 | 0.13 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:35 | 1 |
| Arsenic | 2.7 | | 1.1 | 0.23 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:35 | 1 |
| Selenium | 0.28 | U | 2.1 | 0.28 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:35 | 1 |
| Chromium | 5.7 | | 0.53 | 0.054 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:35 | 1 |
| Sodium | 180 | B | 110 | 0.94 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:35 | 1 |
| Potassium | 1500 | | 110 | 12 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:35 | 1 |
| Magnesium | 6300 | | 110 | 2.0 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:35 | 1 |

Method: 6010B - Metals (ICP) - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|-----|------|-------|---|----------------|----------------|---------|
| Lead | 3.6 | | 1.1 | 0.22 | mg/Kg | * | 04/30/15 12:38 | 05/05/15 11:18 | 2 |
| Calcium | 32000 | | 210 | 1.8 | mg/Kg | * | 04/30/15 12:38 | 05/05/15 11:18 | 2 |

Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 8.4 | J | 18 | 3.9 | ug/Kg | * | 05/01/15 09:57 | 05/01/15 17:16 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Percent Moisture | 7.1 | | 1.0 | 1.0 | % | | | 05/04/15 13:07 | 1 |
| Percent Solids | 93 | | 1.0 | 1.0 | % | | | 05/04/15 13:07 | 1 |

Client Sample ID: 5D16001-04

Date Collected: 04/14/15 13:00

Date Received: 04/29/15 10:07

Lab Sample ID: 600-110701-4

Matrix: Solid

Percent Solids: 85.2

Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Cadmium | 0.090 | J | 0.28 | 0.029 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:42 | 1 |
| Barium | 250 | B | 1.1 | 0.034 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:42 | 1 |
| Silver | 0.13 | U | 0.45 | 0.13 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:42 | 1 |
| Arsenic | 2.0 | | 1.1 | 0.25 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:42 | 1 |
| Lead | 2.6 | | 0.56 | 0.12 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:42 | 1 |
| Selenium | 0.29 | U | 2.3 | 0.29 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:42 | 1 |
| Chromium | 4.2 | | 0.56 | 0.057 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:42 | 1 |
| Sodium | 2500 | B | 110 | 1.0 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:42 | 1 |
| Potassium | 880 | | 110 | 12 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:42 | 1 |
| Calcium | 20000 | | 110 | 0.98 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:42 | 1 |
| Magnesium | 1600 | | 110 | 2.2 | mg/Kg | * | 04/30/15 12:38 | 04/30/15 16:42 | 1 |

Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-------|---|----------------|----------------|---------|
| Mercury | 4.2 | U | 20 | 4.2 | ug/Kg | * | 05/01/15 09:57 | 05/01/15 17:18 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Percent Moisture | 15 | | 1.0 | 1.0 | % | | | 05/04/15 13:07 | 1 |
| Percent Solids | 85 | | 1.0 | 1.0 | % | | | 05/04/15 13:07 | 1 |

TestAmerica Houston

Definitions/Glossary

Client: Permian Basin Environmental Lab LP
Project/Site: 5D16001-01-02-03-04

TestAmerica Job ID: 600-110701-1

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Qualifiers

Metals

| Qualifier | Qualifier Description |
|-----------|---|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Indicates the analyte was analyzed for but not detected. |
| F3 | Duplicate RPD exceeds the control limit |
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

| | |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

QC Sample Results

Client Permian Basin Environmental Lab LP
Project/Site: 5D16001-01-02-03-04

TestAmerica Job ID: 600-110701-1

Method: 6010B - Metals (ICP)

| Lab Sample ID: MB 600-161389/1-A | | | | | | | Client Sample ID: Method Blank | | | |
|----------------------------------|--------------|-----------------|------|-------|-------|---|--------------------------------|----------------|---------|----|
| Matrix: Solid | | | | | | | Prep Type: Total/NA | | | |
| Analysis Batch: 161389 | | | | | | | Prep Batch: 161389 | | | |
| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Cadmium | 0.026 | U | 0.25 | 0.026 | mg/Kg | | 04/30/15 12:38 | 04/30/15 16:19 | 1 | 1 |
| Barium | 0.365 | J | 1.0 | 0.030 | mg/Kg | | 04/30/15 12:38 | 04/30/15 16:19 | 1 | 2 |
| Silver | 0.12 | U | 0.40 | 0.12 | mg/Kg | | 04/30/15 12:38 | 04/30/15 16:19 | 1 | 3 |
| Arsenic | 0.22 | U | 1.0 | 0.22 | mg/Kg | | 04/30/15 12:38 | 04/30/15 16:19 | 1 | 4 |
| Lead | 0.10 | U | 0.50 | 0.10 | mg/Kg | | 04/30/15 12:38 | 04/30/15 16:19 | 1 | 5 |
| Selenium | 0.26 | U | 2.0 | 0.26 | mg/Kg | | 04/30/15 12:38 | 04/30/15 16:19 | 1 | 6 |
| Chromium | 0.051 | U | 0.50 | 0.051 | mg/Kg | | 04/30/15 12:38 | 04/30/15 16:19 | 1 | 7 |
| Sodium | 9.40 | J | 100 | 0.89 | mg/Kg | | 04/30/15 12:38 | 04/30/15 16:19 | 1 | 8 |
| Potassium | 11 | U | 100 | 11 | mg/Kg | | 04/30/15 12:38 | 04/30/15 16:19 | 1 | 9 |
| Calcium | 0.86 | U | 100 | 0.86 | mg/Kg | | 04/30/15 12:38 | 04/30/15 16:19 | 1 | 10 |
| Magnesium | 1.9 | U | 100 | 1.9 | mg/Kg | | 04/30/15 12:38 | 04/30/15 16:19 | 1 | |

| Lab Sample ID: LCSSRM 600-161389/2-A | | | | | | | Client Sample ID: Lab Control Sample | | | |
|--------------------------------------|----------------|------------------|---------------------|-------|---|------|--------------------------------------|--|--|--|
| Matrix: Solid | | | | | | | Prep Type: Total/NA | | | |
| Analysis Batch: 161389 | | | | | | | Prep Batch: 161389 | | | |
| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | Limits | | | |
| Cadmium | 152 | 138 | | mg/Kg | | 90.9 | 81.6 - 117. | | | |
| | | | | | | | 8 | | | |
| Barium | 262 | 245 | | mg/Kg | | 93.4 | 82.8 - 117. | | | |
| | | | | | | | 2 | | | |
| Silver | 44.3 | 42.3 | | mg/Kg | | 95.4 | 74.5 - 125. | | | |
| | | | | | | | 5 | | | |
| Arsenic | 151 | 142 | | mg/Kg | | 94.0 | 80.8 - 119. | | | |
| | | | | | | | 9 | | | |
| Lead | 254 | 247 | | mg/Kg | | 97.3 | 81.5 - 120. | | | |
| | | | | | | | 9 | | | |
| Selenium | 162 | 151 | | mg/Kg | | 92.9 | 77.2 - 122. | | | |
| | | | | | | | 2 | | | |
| Chromium | 117 | 108 | | mg/Kg | | 92.1 | 79.4 - 120. | | | |
| | | | | | | | 5 | | | |
| Sodium | 746 | 707 | | mg/Kg | | 94.7 | 71.7 - 128. | | | |
| | | | | | | | 3 | | | |
| Potassium | 3040 | 2650 | | mg/Kg | | 87.0 | 70.4 - 129. | | | |
| | | | | | | | 6 | | | |
| Calcium | 6400 | 6050 | | mg/Kg | | 94.5 | 82.2 - 117. | | | |
| | | | | | | | 8 | | | |
| Magnesium | 3600 | 3160 | | mg/Kg | | 87.8 | 76.7 - 123. | | | |
| | | | | | | | 3 | | | |

| Lab Sample ID: 600-110701-3 MS | | | | | | | Client Sample ID: 5D16001-03 | | | |
|--------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|------------------------------|------|----------|--|
| Matrix: Solid | | | | | | | Prep Type: Total/NA | | | |
| Analysis Batch: 161389 | | | | | | | Prep Batch: 161389 | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits | |
| Cadmium | 0.10 | J | 25.6 | 26.2 | | mg/Kg | ⊗ | 102 | 75 - 125 | |
| Barium | 82 | B | 51.3 | 142 | | mg/Kg | ⊗ | 116 | 75 - 125 | |
| Silver | 0.13 | U | 25.6 | 27.3 | | mg/Kg | ⊗ | 106 | 75 - 125 | |
| Arsenic | 2.7 | | 51.3 | 54.1 | | mg/Kg | ⊗ | 100 | 75 - 125 | |
| Selenium | 0.28 | U | 51.3 | 49.5 | | mg/Kg | ⊗ | 97 | 75 - 125 | |
| Chromium | 5.7 | | 51.3 | 54.5 | | mg/Kg | ⊗ | 95 | 75 - 125 | |

TestAmerica Houston

QC Sample Results

Client: Permian Basin Environmental Lab LP
 Project/Site: 5D16001-01-02-03-04

TestAmerica Job ID: 600-110701-1

Method: 6010B - Metals (ICP) (Continued)

| Lab Sample ID: 600-110701-3 MS | | | | | | | | Client Sample ID: 5D16001-03 | | | | |
|--------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------------------------------|----------|--|--|--|
| Matrix: Solid | | | | | | | | Prep Type: Total/NA | | | | |
| Analysis Batch: 161381 | | | | | | | | Prep Batch: 161389 | | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits | | | |
| Sodium | 180 | B | 513 | 733 | | mg/Kg | * | 108 | 75 - 125 | | | |
| Potassium | 1500 | | 513 | 2090 | | mg/Kg | * | 118 | 75 - 125 | | | |
| Magnesium | 6300 | | 513 | 7650 | 4 | mg/Kg | * | 259 | 75 - 125 | | | |

| Lab Sample ID: 600-110701-3 DU | | | | | | | | Client Sample ID: 5D16001-03 | | | | |
|--------------------------------|---------------|------------------|--|-----------|--------------|-------|---|------------------------------|--|-----|-------|--|
| Matrix: Solid | | | | | | | | Prep Type: Total/NA | | | | |
| Analysis Batch: 161381 | | | | | | | | Prep Batch: 161389 | | | | |
| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | Limit | |
| Cadmium | 0.10 | J | | 0.0930 | J | mg/Kg | * | | | 9 | 20 | |
| Barium | 82 | B | | 74.0 | | mg/Kg | * | | | 11 | 20 | |
| Silver | 0.13 | U | | 0.12 | U | mg/Kg | * | | | NC | 20 | |
| Arsenic | 2.7 | | | 2.57 | | mg/Kg | * | | | 6 | 20 | |
| Selenium | 0.28 | U | | 0.25 | U | mg/Kg | * | | | NC | 20 | |
| Chromium | 5.7 | | | 5.42 | | mg/Kg | * | | | 5 | 20 | |
| Sodium | 180 | B | | 164 | | mg/Kg | * | | | 8 | 20 | |
| Potassium | 1500 | | | 1440 | | mg/Kg | * | | | 3 | 20 | |
| Magnesium | 6300 | | | 5120 | F3 | mg/Kg | * | | | 21 | 20 | |

Method: 6010B - Metals (ICP) - DL

| Lab Sample ID: 600-110701-3 MS | | | | | | | | Client Sample ID: 5D16001-03 | | | | |
|--------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------------------------------|----------|--|--|--|
| Matrix: Solid | | | | | | | | Prep Type: Total/NA | | | | |
| Analysis Batch: 161670 | | | | | | | | Prep Batch: 161389 | | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits | | | |
| Lead - DL | 3.6 | | 51.3 | 56.9 | | mg/Kg | * | 104 | 75 - 125 | | | |
| Calcium - DL | 32000 | | 513 | 35700 | 4 | mg/Kg | * | 824 | 75 - 125 | | | |

| Lab Sample ID: 600-110701-3 DU | | | | | | | | Client Sample ID: 5D16001-03 | | | | |
|--------------------------------|---------------|------------------|--|-----------|--------------|-------|---|------------------------------|--|-----|-------|--|
| Matrix: Solid | | | | | | | | Prep Type: Total/NA | | | | |
| Analysis Batch: 161670 | | | | | | | | Prep Batch: 161389 | | | | |
| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | Limit | |
| Lead - DL | 3.6 | | | 3.71 | | mg/Kg | * | | | 3 | 20 | |
| Calcium - DL | 32000 | | | 27700 | | mg/Kg | * | | | 13 | 20 | |

Method: 7471A - Mercury (CVAA)

| Lab Sample ID: MB 600-161462/7-A | | | | | | | | Client Sample ID: Method Blank | | | | |
|----------------------------------|-----------|--------------|--|----|-----|-------|---|--------------------------------|----------------|---------|---|--|
| Matrix: Solid | | | | | | | | Prep Type: Total/NA | | | | |
| Analysis Batch: 161515 | | | | | | | | Prep Batch: 161462 | | | | |
| Analyte | MB Result | MB Qualifier | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | | |
| Mercury | 3.4 | U | | 16 | 3.4 | ug/Kg | | 05/01/15 09:57 | 05/01/15 16:54 | | 1 | |

TestAmerica Houston

QC Sample Results

Client: Permian Basin Environmental Lab LP
 Project/Site: 5D16001-01-02-03-04

TestAmerica Job ID: 600-110701-1

Method: 7471A - Mercury (CVAA) (Continued)

| | | | | | | | | | |
|--|------------------|---------------------|------------------|---|-----------------|---|-------|-------------|----------|
| Lab Sample ID: LCSSRM 600-161462/8-A ^50 Matrix: Solid Analysis Batch: 161515 | | | | Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 161462 | | | | | |
| Analyte | | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit ug/Kg | D | %Rec | %Rec. | Limits |
| Mercury | | 5760 | 6070 | | | | 105.4 | 71.2 - 128. | 6 |
| Lab Sample ID: 600-110701-1 MS Matrix: Solid Analysis Batch: 161515 | | | | | | Client Sample ID: 5D16001-01 Prep Type: Total/NA Prep Batch: 161462 | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit ug/Kg | D | %Rec | %Rec. |
| Mercury | 3.6 | U | 241 | 247 | | | | 102 | 75 - 125 |
| Lab Sample ID: 600-110701-1 DU Matrix: Solid Analysis Batch: 161515 | | | | | | Client Sample ID: 5D16001-01 Prep Type: Total/NA Prep Batch: 161462 | | | |
| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit ug/Kg | D | | RPD |
| Mercury | 3.6 | U | | 3.7 | U | | | | NC |
| | | | | | | | | | Limit |
| | | | | | | | | | 20 |

Method: 2540B - Percent Moisture

| | | | | | | | | | |
|---|------------------|---------------------|--|---|-----------------|-----------|---|--|-----|
| Lab Sample ID: 600-110701-1 DU Matrix: Solid Analysis Batch: 161595 | | | | Client Sample ID: 5D16001-01 Prep Type: Total/NA | | | | | |
| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit % | D | | RPD |
| Percent Moisture | 5.7 | | | 5.6 | | % | | | 2 |
| Percent Solids | 94 | | | 94 | | % | | | 0.1 |

QC Association Summary

Client: Permian Basin Environmental Lab LP
Project/Site: 5D16001-01-02-03-04

TestAmerica Job ID: 600-110701-1

Metals

Analysis Batch: 161381

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-----------|--------|--------|------------|
| 600-110701-1 | 5D16001-01 | Total/NA | Solid | 6010B | 161389 |
| 600-110701-2 | 5D16001-02 | Total/NA | Solid | 6010B | 161389 |
| 600-110701-3 | 5D16001-03 | Total/NA | Solid | 6010B | 161389 |
| 600-110701-3 DU | 5D16001-03 | Total/NA | Solid | 6010B | 161389 |
| 600-110701-3 MS | 5D16001-03 | Total/NA | Solid | 6010B | 161389 |
| 600-110701-4 | 5D16001-04 | Total/NA | Solid | 6010B | 161389 |
| LCSSRM 600-161389/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 161389 |
| MB 600-161389/1-A | Method Blank | Total/NA | Solid | 6010B | 161389 |

Prep Batch: 161389

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-----------|--------|--------|------------|
| 600-110701-1 | 5D16001-01 | Total/NA | Solid | 3050B | |
| 600-110701-2 | 5D16001-02 | Total/NA | Solid | 3050B | |
| 600-110701-3 - DL | 5D16001-03 | Total/NA | Solid | 3050B | |
| 600-110701-3 | 5D16001-03 | Total/NA | Solid | 3050B | |
| 600-110701-3 DU | 5D16001-03 | Total/NA | Solid | 3050B | |
| 600-110701-3 DU - DL | 5D16001-03 | Total/NA | Solid | 3050B | |
| 600-110701-3 MS - DL | 5D16001-03 | Total/NA | Solid | 3050B | |
| 600-110701-3 MS | 5D16001-03 | Total/NA | Solid | 3050B | |
| 600-110701-4 | 5D16001-04 | Total/NA | Solid | 3050B | |
| LCSSRM 600-161389/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 600-161389/1-A | Method Blank | Total/NA | Solid | 3050B | |

Prep Batch: 161462

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------------|--------------------|-----------|--------|--------|------------|
| 600-110701-1 | 5D16001-01 | Total/NA | Solid | 7471A | |
| 600-110701-1 DU | 5D16001-01 | Total/NA | Solid | 7471A | |
| 600-110701-1 MS | 5D16001-01 | Total/NA | Solid | 7471A | |
| 600-110701-2 | 5D16001-02 | Total/NA | Solid | 7471A | |
| 600-110701-3 | 5D16001-03 | Total/NA | Solid | 7471A | |
| 600-110701-4 | 5D16001-04 | Total/NA | Solid | 7471A | |
| LCSSRM 600-161462/8-A ^50 | Lab Control Sample | Total/NA | Solid | 7471A | |
| MB 600-161462/7-A | Method Blank | Total/NA | Solid | 7471A | |

Analysis Batch: 161515

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------------|--------------------|-----------|--------|--------|------------|
| 600-110701-1 | 5D16001-01 | Total/NA | Solid | 7471A | 161462 |
| 600-110701-1 DU | 5D16001-01 | Total/NA | Solid | 7471A | 161462 |
| 600-110701-1 MS | 5D16001-01 | Total/NA | Solid | 7471A | 161462 |
| 600-110701-2 | 5D16001-02 | Total/NA | Solid | 7471A | 161462 |
| 600-110701-3 | 5D16001-03 | Total/NA | Solid | 7471A | 161462 |
| 600-110701-4 | 5D16001-04 | Total/NA | Solid | 7471A | 161462 |
| LCSSRM 600-161462/8-A ^50 | Lab Control Sample | Total/NA | Solid | 7471A | 161462 |
| MB 600-161462/7-A | Method Blank | Total/NA | Solid | 7471A | 161462 |

Analysis Batch: 161670

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------|-----------|--------|--------|------------|
| 600-110701-3 - DL | 5D16001-03 | Total/NA | Solid | 6010B | 161389 |
| 600-110701-3 DU - DL | 5D16001-03 | Total/NA | Solid | 6010B | 161389 |
| 600-110701-3 MS - DL | 5D16001-03 | Total/NA | Solid | 6010B | 161389 |

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QC Association Summary

Client: Permian Basin Environmental Lab LP
Project/Site: 5D16001-01-02-03-04

TestAmerica Job ID: 600-110701-1

General Chemistry

Analysis Batch: 161595

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| 600-110701-1 | 5D16001-01 | Total/NA | Solid | 2540B | 5 |
| 600-110701-1 DU | 5D16001-01 | Total/NA | Solid | 2540B | 6 |
| 600-110701-2 | 5D16001-02 | Total/NA | Solid | 2540B | 7 |
| 600-110701-3 | 5D16001-03 | Total/NA | Solid | 2540B | 8 |
| 600-110701-4 | 5D16001-04 | Total/NA | Solid | 2540B | 9 |

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TestAmerica Houston

Lab Chronicle

Client: Permian Basin Environmental Lab LP
 Project/Site: 5D16001-01-02-03-04

TestAmerica Job ID: 600-110701-1

Client Sample ID: 5D16001-01

Date Collected: 04/14/15 11:00

Date Received: 04/29/15 10:07

Lab Sample ID: 600-110701-1

Matrix: Solid

Percent Solids: 94.3

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.04 g | 50 mL | 161389 | 04/30/15 12:38 | NER | TAL HOU |
| Total/NA | Analysis | 6010B | | 1 | 1.04 g | 50 mL | 161381 | 04/30/15 16:30 | DCL | TAL HOU |
| Total/NA | Prep | 7471A | | | 0.64 g | 50 mL | 161462 | 05/01/15 09:57 | SCG | TAL HOU |
| Total/NA | Analysis | 7471A | | 1 | 0.64 g | 50 mL | 161515 | 05/01/15 17:04 | SCG | TAL HOU |
| Total/NA | Analysis | 2540B | | 1 | | | 161595 | 05/04/15 13:07 | MJB | TAL HOU |

Client Sample ID: 5D16001-02

Date Collected: 04/14/15 12:00

Date Received: 04/29/15 10:07

Lab Sample ID: 600-110701-2

Matrix: Solid

Percent Solids: 91.9

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.02 g | 50 mL | 161389 | 04/30/15 12:38 | NER | TAL HOU |
| Total/NA | Analysis | 6010B | | 1 | 1.02 g | 50 mL | 161381 | 04/30/15 16:33 | DCL | TAL HOU |
| Total/NA | Prep | 7471A | | | 0.61 g | 50 mL | 161462 | 05/01/15 09:57 | SCG | TAL HOU |
| Total/NA | Analysis | 7471A | | 1 | 0.61 g | 50 mL | 161515 | 05/01/15 17:11 | SCG | TAL HOU |
| Total/NA | Analysis | 2540B | | 1 | | | 161595 | 05/04/15 13:07 | MJB | TAL HOU |

Client Sample ID: 5D16001-03

Date Collected: 04/14/15 12:30

Date Received: 04/29/15 10:07

Lab Sample ID: 600-110701-3

Matrix: Solid

Percent Solids: 92.9

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.01 g | 50 mL | 161389 | 04/30/15 12:38 | NER | TAL HOU |
| Total/NA | Analysis | 6010B | | 1 | 1.01 g | 50 mL | 161381 | 04/30/15 16:35 | DCL | TAL HOU |
| Total/NA | Prep | 3050B | DL | | 1.01 g | 50 mL | 161389 | 04/30/15 12:38 | NER | TAL HOU |
| Total/NA | Analysis | 6010B | DL | 2 | 1.01 g | 50 mL | 161670 | 05/05/15 11:18 | DCL | TAL HOU |
| Total/NA | Prep | 7471A | | | 0.60 g | 50 mL | 161462 | 05/01/15 09:57 | SCG | TAL HOU |
| Total/NA | Analysis | 7471A | | 1 | 0.60 g | 50 mL | 161515 | 05/01/15 17:16 | SCG | TAL HOU |
| Total/NA | Analysis | 2540B | | 1 | | | 161595 | 05/04/15 13:07 | MJB | TAL HOU |

Client Sample ID: 5D16001-04

Date Collected: 04/14/15 13:00

Date Received: 04/29/15 10:07

Lab Sample ID: 600-110701-4

Matrix: Solid

Percent Solids: 85.2

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3050B | | | 1.04 g | 50 mL | 161389 | 04/30/15 12:38 | NER | TAL HOU |
| Total/NA | Analysis | 6010B | | 1 | 1.04 g | 50 mL | 161381 | 04/30/15 16:42 | DCL | TAL HOU |
| Total/NA | Prep | 7471A | | | 0.60 g | 50 mL | 161462 | 05/01/15 09:57 | SCG | TAL HOU |
| Total/NA | Analysis | 7471A | | 1 | 0.60 g | 50 mL | 161515 | 05/01/15 17:18 | SCG | TAL HOU |
| Total/NA | Analysis | 2540B | | 1 | | | 161595 | 05/04/15 13:07 | MJB | TAL HOU |

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TestAmerica Houston

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Certification Summary

Client: Permian Basin Environmental Lab LP
Project/Site: 5D16001-01-02-03-04

TestAmerica Job ID: 600-110701-1

Laboratory: TestAmerica Houston

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Texas | NELAP | 6 | T104704223 | 10-31-15 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------------|
| 2540B | | Solid | Percent Moisture |
| 2540B | | Solid | Percent Solids |

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, L.P.
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Brent Barron

Company Name PBEL

Company Address: 10014 SCR 1213

City/State/Zip: Midland Texas

Telephone No: 432-661-4184 **Fax No:**

Sampler Signature: N/A **e-mail:** brentbarron@obelab.com

Project Name: SUBCONTRACT

Project: 
Project Loc: 

PO 1 600-110701 Chain of Custody

Report Format: Standard TRRP NPDES

(Lab use only)

ORDER #:

ORDER #:

Special Instructions:

| | | | | | | |
|-------------------------------|------------------|--------------|------------------|-----------------|--------------|---|
| Inquished by: Brent Barron | Date 04/28/15 | Time 1400 | <i>B. Barron</i> | Date 4/29/15 | Time 1007 | Cables on certificate(s) <input checked="" type="checkbox"/> Y N |
| Inquished by: | Date | Time | Received by: | Date | Time | Custody seals on container(s) <input checked="" type="checkbox"/> Y N |
| Inquished by: | Date | Time | Received by: | Date | Time | Custody seals on cooler(s) <input checked="" type="checkbox"/> Y N |

TestAmerica-Houston

Sample Receipt Checklist

TestAmerica

JOB NUMBER: _____

Loc: 600
110701

Date/Time Received:

UNPACKED BY:

CLIENT:

CARRIER/DRIVER:

Custody Seal Present:

YES

NO

Number of Coolers Received:

CF = correction factor

Samples received on ice? YES NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: NO YES

Base samples are >pH 2: YES NO Acid preserved are <pH 2: YES NO

pH paper Lot #_____

VOA headspace acceptable (5-6mm): YES NO NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

YES NO

COMMENTS:

Login Sample Receipt Checklist

Client: Permian Basin Environmental Lab LP

Job Number: 600-110701-1

Login Number: 110701

List Source: TestAmerica Houston

List Number: 1

Creator: Capps, Dana R

| Question | Answer | Comment |
|--|--------|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | Lab does not accept radioactive samples. |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 3.5 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | Check done at department level as required. |

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 806-794-1296 FAX 806-794-1298
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquec) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail lab@traceanalysis.com WEB www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report (Corrected Report)

Sarah Shissler
Larson and Associates, Inc.

Report Date: October 20, 2015

P. O. Box 50685
Midland, TX, 79710

Work Order: 15061746



Project Name: R360 Artesia Landfarm
Project Number: 15-0121-01

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 396026 | Cell 2 (NS) | soil | 2015-06-16 | 12:45 | 2015-06-17 |

Report Corrections (Work Order 15061746)

- 7/7/15: Corrected Project Name.

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 34 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

For inorganic analyses, the term MQL should actually read PQL.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project R360 Artesia Landfarm were received by TraceAnalysis, Inc. on 2015-06-17 and assigned to work order 15061746. Samples for work order 15061746 were received intact at a temperature of 1.3 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|----------------------|--------------|------------|---------------------|----------|---------------------|
| Ag, Total | S 6010C | 103886 | 2015-07-02 at 10:46 | 122879 | 2015-07-06 at 09:41 |
| Alkalinity | SM 2320B | 103850 | 2015-07-01 at 09:18 | 122778 | 2015-07-01 at 09:19 |
| As, Total | S 6010C | 103886 | 2015-07-02 at 10:46 | 122879 | 2015-07-06 at 09:41 |
| Ba, Total | S 6010C | 103886 | 2015-07-02 at 10:46 | 122879 | 2015-07-06 at 09:41 |
| BTEX | S 8021B | 103647 | 2015-06-22 at 15:12 | 122539 | 2015-06-23 at 07:18 |
| Ca, Total | S 6010C | 103886 | 2015-07-02 at 10:46 | 122879 | 2015-07-06 at 09:41 |
| Cd, Total | S 6010C | 103886 | 2015-07-02 at 10:46 | 122879 | 2015-07-06 at 09:41 |
| Chloride (IC) | E 300.0 | 103849 | 2015-06-29 at 15:00 | 122777 | 2015-06-30 at 08:43 |
| Chloride (Titration) | SM 4500-Cl B | 103564 | 2015-06-18 at 08:35 | 122475 | 2015-06-19 at 12:51 |
| Cr, Total | S 6010C | 103886 | 2015-07-02 at 10:46 | 122879 | 2015-07-06 at 09:41 |
| Hg, Total | S 7471 B | 103811 | 2015-06-29 at 11:15 | 122743 | 2015-06-29 at 16:40 |
| K, Total | S 6010C | 103886 | 2015-07-02 at 10:46 | 122879 | 2015-07-06 at 09:41 |
| Mg, Total | S 6010C | 103886 | 2015-07-02 at 10:46 | 122879 | 2015-07-06 at 09:41 |
| Na, Total | S 6010C | 103886 | 2015-07-02 at 10:46 | 122879 | 2015-07-06 at 09:41 |
| Pb, Total | S 6010C | 103886 | 2015-07-02 at 10:46 | 122879 | 2015-07-06 at 09:41 |
| Se, Total | S 6010C | 103886 | 2015-07-02 at 10:46 | 122879 | 2015-07-06 at 09:41 |
| SO4 (IC) | E 300.0 | 103849 | 2015-06-29 at 15:00 | 122777 | 2015-06-30 at 08:43 |
| TPH 418.1 | E 418.1 | 103768 | 2015-06-26 at 13:21 | 122683 | 2015-06-26 at 13:24 |
| TPH DRO | S 8015 D | 103689 | 2015-06-23 at 19:36 | 122620 | 2015-06-24 at 13:02 |
| TPH GRO | S 8015 D | 103647 | 2015-06-22 at 15:12 | 122540 | 2015-06-23 at 07:21 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15061746 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

The temperature of the Cold Box for storing samples was between 3.2 and 17.2 degrees C between June 26th and 29th. We do not believe this will affect your Alkalinity and SO4 results.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 396026 - Cell 2 (NS)

Laboratory: Lubbock
Analysis: Alkalinity
QC Batch: 122778
Prep Batch: 103850

Analytical Method: SM 2320B
Date Analyzed: 2015-07-01
Sample Preparation:

Prep Method: N/A
Analyzed By: LQ
Prepared By: LQ

| Parameter | F | C | SDL | MQL | Method | Units | Dilution | SDL | MQL | MDL |
|------------------------|---|---|-------|-------|--------|----------------|----------|------|--------------|--------------|
| | | | Based | Based | Blank | | | | (Unadjusted) | (Unadjusted) |
| Hydroxide Alkalinity | u | 1 | <20.0 | <20.0 | <20.0 | mg/Kg as CaCo3 | 1 | 20.0 | 20 | 20 |
| Carbonate Alkalinity | | 1 | 180 | 180 | <20.0 | mg/Kg as CaCo3 | 1 | 20.0 | 20 | 20 |
| Bicarbonate Alkalinity | | 1 | 350 | 350 | <20.0 | mg/Kg as CaCo3 | 1 | 20.0 | 20 | 20 |
| Total Alkalinity | | 1 | 530 | 530 | <20.0 | mg/Kg as CaCo3 | 1 | 20.0 | 20 | 20 |

Sample: 396026 - Cell 2 (NS)

Laboratory: Midland
Analysis: BTEX
QC Batch: 122539
Prep Batch: 103647

Analytical Method: S 8021B
Date Analyzed: 2015-06-23
Sample Preparation: 2015-06-22

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | F | C | SDL | MQL | Method | Units | Dilution | SDL | MQL | MDL |
|--------------|---|---|----------|---------|----------|-------|----------|---------|--------------|--------------|
| | | | Based | Based | Blank | | | | (Unadjusted) | (Unadjusted) |
| Benzene | u | 5 | <0.00533 | <0.0200 | <0.00533 | mg/Kg | 1 | 0.00533 | 0.02 | 0.00533 |
| Toluene | u | 5 | <0.00645 | <0.0200 | <0.00645 | mg/Kg | 1 | 0.00645 | 0.02 | 0.00645 |
| Ethylbenzene | u | 5 | <0.0116 | <0.0200 | <0.0116 | mg/Kg | 1 | 0.0116 | 0.02 | 0.0116 |
| Xylene | u | 5 | <0.00874 | <0.0200 | <0.00874 | mg/Kg | 1 | 0.00874 | 0.02 | 0.00874 |

| Surrogate | F | C | Result | Units | Dilution | Spike | Percent | Recovery |
|------------------------------|---|---|--------|-------|----------|--------|----------|----------|
| | | | | | | Amount | Recovery | Limits |
| Trifluorotoluene (TFT) | | | 1.87 | mg/Kg | 1 | 2.00 | 94 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.93 | mg/Kg | 1 | 2.00 | 96 | 70 - 130 |

Sample: 396026 - Cell 2 (NS)

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 122777
Prep Batch: 103849

Analytical Method: E 300.0
Date Analyzed: 2015-06-30
Sample Preparation:

Prep Method: N/A
Analyzed By: RL
Prepared By: RL

Report Date: October 20, 2015
15-0121-01

Work Order: 15061746
R360 Artesia Landfarm

Page Number: 7 of 34

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------|---|---|------------------|------------------|---------------------|-------|----------|------|------------------|------------------|
| Chloride | | | 3,4,6 256 | 256 | 13.8 | mg/Kg | 2 | 9.38 | 25 | 4.69 |

Sample: 396026 - Cell 2 (NS)

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 122475
Prep Batch: 103564

Analytical Method: SM 4500-Cl B
Date Analyzed: 2015-06-19
Sample Preparation: 2015-06-18

Prep Method: N/A
Analyzed By: AK
Prepared By: AK

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------|---|---|------------------|------------------|---------------------|-------|----------|------|------------------|------------------|
| Chloride | | | 95.0 | 95.0 | <19.2 | mg/Kg | 5 | 19.2 | 4 | 3.85 |

Sample: 396026 - Cell 2 (NS)

Laboratory: Lubbock
Analysis: Salts, Total
QC Batch: 122879
Prep Batch: 103886

Analytical Method: S 6010C
Date Analyzed: 2015-07-06
Sample Preparation: 2015-07-02

Prep Method: S 3050B
Analyzed By: RR
Prepared By: RR

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------------|---|---|------------------|------------------|---------------------|-------|----------|------|------------------|------------------|
| Total Calcium | | | 2,3,4,6 20000 | 20000 | <770 | mg/Kg | 100 | 770 | 10 | 7.7 |
| Total Magnesium | | | 2,3,4,6 1060 | 1060 | <4.74 | mg/Kg | 1 | 4.74 | 10 | 4.74 |
| Total Potassium | | | 2,3,4,6 890 | 890 | <5.79 | mg/Kg | 1 | 5.79 | 10 | 5.79 |
| Total Sodium | | | 2,3,4,6 122 | 122 | <9.52 | mg/Kg | 1 | 9.52 | 10 | 9.52 |

Sample: 396026 - Cell 2 (NS)

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 122777
Prep Batch: 103849

Analytical Method: E 300.0
Date Analyzed: 2015-06-30
Sample Preparation:

Prep Method: N/A
Analyzed By: RL
Prepared By: RL

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------|---|---|------------------|------------------|---------------------|-------|----------|------|------------------|------------------|
| Sulfate | | | 3,4,6 165 | 165 | <7.44 | mg/Kg | 2 | 7.44 | 25 | 3.72 |

Sample: 396026 - Cell 2 (NS)

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| | | | | | | | | | |
|-------------|----------------|--|--|--|--|--|--|--|--|
| Laboratory: | Lubbock | | | | | | | | |
| Analysis: | Total 8 Metals | | | | | | | | |
| QC Batch: | 122743 | | | | | | | | |
| Prep Batch: | 103811 | | | | | | | | |
| Laboratory: | Lubbock | | | | | | | | |
| Analysis: | Total 8 Metals | | | | | | | | |
| QC Batch: | 122879 | | | | | | | | |
| Prep Batch: | 103886 | | | | | | | | |
| | | | | | | | | | |

| Parameter | F | C | SDL | MQL | Method | | | MQL (Unadjusted) | MDL (Unadjusted) |
|----------------|---------|-----------|-----------------|-----------------|-----------------|-------|----------|---------------------|---------------------|
| | | | Based Result | Based Result | Blank Result | Units | Dilution | | |
| Total Silver | U | 2,3,4,6 | <0.0356 | <0.500 | <0.0356 | mg/Kg | 1 | 0.0356 | 0.5 |
| Total Arsenic | U | 2,3,4,6 | <0.568 | <2.00 | <0.568 | mg/Kg | 1 | 0.568 | 2 |
| Total Barium | 2,3,4,6 | | 55.5 | 55.5 | <0.105 | mg/Kg | 1 | 0.105 | 1 |
| Total Cadmium | U | 2,3,4,6 | <0.0303 | <0.500 | <0.0303 | mg/Kg | 1 | 0.0303 | 0.5 |
| Total Chromium | 2,3,4,6 | | 4.14 | 4.14 | <0.118 | mg/Kg | 1 | 0.118 | 0.5 |
| Total Mercury | U | 1,2,3,4,6 | <0.00325 | <0.0250 | <0.00325 | mg/Kg | 1 | 0.00325 | 0.025 |
| Total Lead | U | 2,3,4,6 | <0.140 | <1.00 | <0.140 | mg/Kg | 1 | 0.140 | 1 |
| Total Selenium | U | 2,3,4,6 | <0.451 | <2.00 | <0.451 | mg/Kg | 1 | 0.451 | 2 |

Sample: 396026 - Cell 2 (NS)

| | | | | | | | | | |
|-------------|-----------|--|--|--|--|--|--|--|--|
| Laboratory: | Lubbock | | | | | | | | |
| Analysis: | TPH 418.1 | | | | | | | | |
| QC Batch: | 122683 | | | | | | | | |
| Prep Batch: | 103768 | | | | | | | | |
| | | | | | | | | | |

| Parameter | F | C | SDL | MQL | Method | | | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|---------------------|---------------------|
| | | | Based Result | Based Result | Blank Result | Units | Dilution | | |
| TRPHC | J | | 9.21 | <20.0 | <9.06 | mg/Kg | 2 | 9.06 | 10 |

Sample: 396026 - Cell 2 (NS)

| | | | | | | | | | |
|-------------|---------|--|--|--|--|--|--|--|--|
| Laboratory: | Midland | | | | | | | | |
| Analysis: | TPH DRO | | | | | | | | |
| QC Batch: | 122620 | | | | | | | | |
| Prep Batch: | 103689 | | | | | | | | |
| | | | | | | | | | |

| Parameter | F | C | SDL | MQL | Method | | | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|---------------------|---------------------|
| | | | Based Result | Based Result | Blank Result | Units | Dilution | | |
| DRO | J | 5 | 11.3 | <50.0 | <7.41 | mg/Kg | 1 | 7.41 | 50 |

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| Surrogate | F | C | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|---|---|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | J | | 38.1 | mg/Kg | 1 | 50.0 | 76 | 70 - 130 |

Sample: 396026 - Cell 2 (NS)

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 122540
Prep Batch: 103647

Analytical Method: S 8015 D
Date Analyzed: 2015-06-23
Sample Preparation: 2015-06-22

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | F | C | Result | SDL | MQL | Method | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|------------------------------|---|---|--------|-------|-------|--------|------|---------------------|---------------------|
| | | | | Based | Based | Blank | | | |
| GRO | U | S | <2.32 | <4.00 | <2.32 | mg/Kg | 1 | 2.32 | 4 |
| Surrogate | | | | | | | | | |
| Trifluorotoluene (TFT) | | J | | 2.34 | mg/Kg | 1 | 2.00 | 117 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | J | | 2.03 | mg/Kg | 1 | 2.00 | 102 | 70 - 130 |

Method Blanks

Method Blank (1)

QC Batch: 122475
Prep Batch: 103564

Date Analyzed: 2015-06-19
QC Preparation: 2015-06-18

Analyzed By: AK
Prepared By: AK

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride | | | <3.85 | mg/Kg | 3.85 |

Method Blank (1)

QC Batch: 122539
Prep Batch: 103647

Date Analyzed: 2015-06-23
QC Preparation: 2015-06-22

Analyzed By: AK
Prepared By: AK

| Parameter | F | C | Result | Units | Reporting Limits |
|--------------|---|---|----------|-------|------------------|
| Benzene | 5 | | <0.00533 | mg/Kg | 0.00533 |
| Toluene | 5 | | <0.00645 | mg/Kg | 0.00645 |
| Ethylbenzene | 5 | | <0.0116 | mg/Kg | 0.0116 |
| Xylene | 5 | | <0.00874 | mg/Kg | 0.00874 |

| Surrogate | F | C | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|---|---|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.82 | mg/Kg | 1 | 2.00 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.88 | mg/Kg | 1 | 2.00 | 94 | 70 - 130 |

Method Blank (1)

QC Batch: 122540
Prep Batch: 103647

Date Analyzed: 2015-06-23
QC Preparation: 2015-06-22

Analyzed By: AK
Prepared By: AK

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| GRO | 6 | | <2.32 | mg/Kg | 2.32 |

| Surrogate | F | C | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|---|---|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 2.33 | mg/Kg | 1 | 2.00 | 116 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.99 | mg/Kg | 1 | 2.00 | 100 | 70 - 130 |

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Method Blank (1)

QC Batch: 122620
Prep Batch: 103689

Date Analyzed: 2015-06-24
QC Preparation: 2015-06-23

Analyzed By: SC
Prepared By: SC

| Parameter | F | C | Result | Units | Reporting Limits | | | |
|-------------|---|---|--------|--------------|------------------|------|----|----------|
| DRO | | 5 | <7.41 | mg/Kg | 7.41 | | | |
| Surrogate | F | C | Result | Spike Amount | Percent Recovery | | | |
| n-Tricosane | | | 42.2 | mg/Kg | 1 | 50.0 | 84 | 70 - 130 |

Method Blank (1)

QC Batch: 122683
Prep Batch: 103768

Date Analyzed: 2015-06-26
QC Preparation: 2015-06-26

Analyzed By: ZY
Prepared By: ZY

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| TRPHC | | | <4.53 | mg/Kg | 4.53 |

Method Blank (1)

QC Batch: 122743
Prep Batch: 103811

Date Analyzed: 2015-06-29
QC Preparation: 2015-06-29

Analyzed By: TP
Prepared By: TP

| Parameter | F | C | Result | Units | Reporting Limits |
|---------------|---|-----------|----------|-------|------------------|
| Total Mercury | | 1,2,3,4,6 | <0.00325 | mg/Kg | 0.00325 |

Method Blank (1)

QC Batch: 122777
Prep Batch: 103849

Date Analyzed: 2015-06-30
QC Preparation: 2015-06-29

Analyzed By: RL
Prepared By: RL

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|-------|--------|-------|------------------|
| Chloride | | 3,4,6 | 6.91 | mg/Kg | 4.69 |

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Method Blank (1)

QC Batch: 122777
Prep Batch: 103849

Date Analyzed: 2015-06-30
QC Preparation: 2015-06-29

Analyzed By: RL
Prepared By: RL

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|-------|--------|-------|------------------|
| Sulfate | | s,4,6 | <3.72 | mg/Kg | 3.72 |

Method Blank (1)

QC Batch: 122778
Prep Batch: 103850

Date Analyzed: 2015-07-01
QC Preparation: 2015-07-01

Analyzed By: LQ
Prepared By: RL

| Parameter | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|----------------------------|------------------|
| Hydroxide Alkalinity | 1 | | <20.0 | mg/Kg as CaCO ₃ | 20 |
| Carbonate Alkalinity | 1 | | <20.0 | mg/Kg as CaCO ₃ | 20 |
| Bicarbonate Alkalinity | 1 | | 50.0 | mg/Kg as CaCO ₃ | 20 |
| Total Alkalinity | 1 | | 50.0 | mg/Kg as CaCO ₃ | 20 |

Method Blank (1)

QC Batch: 122879
Prep Batch: 103886

Date Analyzed: 2015-07-06
QC Preparation: 2015-07-02

Analyzed By: RR
Prepared By: PM

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------------|---------|---|--------|-------|------------------|
| Total Calcium | 2,3,4,6 | | <7.70 | mg/Kg | 7.7 |
| Total Magnesium | 2,3,4,6 | | <4.74 | mg/Kg | 4.74 |
| Total Potassium | 2,3,4,6 | | <5.79 | mg/Kg | 5.79 |
| Total Sodium | 2,3,4,6 | | <9.52 | mg/Kg | 9.52 |

Method Blank (1)

QC Batch: 122879
Prep Batch: 103886

Date Analyzed: 2015-07-06
QC Preparation: 2015-07-02

Analyzed By: RR
Prepared By: PM

| Parameter | F | C | Result | Units | Reporting Limits |
|--------------|---|---------|---------|-------|------------------|
| Total Silver | | 2,3,4,6 | <0.0356 | mg/Kg | 0.0356 |

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method blank continued ...

| Parameter | F | C | Result | Units | Reporting Limits |
|----------------|---|---------|---------|-------|------------------|
| Total Arsenic | | 2,3,4,6 | <0.568 | mg/Kg | 0.568 |
| Total Barium | | 2,3,4,6 | <0.105 | mg/Kg | 0.105 |
| Total Cadmium | | 2,3,4,6 | <0.0303 | mg/Kg | 0.0303 |
| Total Chromium | | 2,3,4,6 | <0.118 | mg/Kg | 0.118 |
| Total Lead | | 2,3,4,6 | <0.140 | mg/Kg | 0.14 |
| Total Selenium | | 2,3,4,6 | <0.451 | mg/Kg | 0.451 |

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Duplicates

Duplicate (1) Duplicated Sample: 396026

QC Batch: 122778
Prep Batch: 103850

Date Analyzed: 2015-07-01
QC Preparation: 2015-07-01

Analyzed By: LQ
Prepared By: RL

| Param | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|----------------|----------|-----|-----------|
| Hydroxide Alkalinity | | 1 | <20.0 | <20.0 | mg/Kg as CaCo3 | 1 | 0 | 20 |
| Carbonate Alkalinity | | 1 | 180 | 180 | mg/Kg as CaCo3 | 1 | 0 | 20 |
| Bicarbonate Alkalinity | | 1 | 380 | 350 | mg/Kg as CaCo3 | 1 | 8 | 20 |
| Total Alkalinity | | 1 | 560 | 530 | mg/Kg as CaCo3 | 1 | 6 | 20 |

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 122475 Date Analyzed: 2015-06-19 Analyzed By: AK
Prep Batch: 103564 QC Preparation: 2015-06-18 Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Chloride | | | 2560 | mg/Kg | 5 | 2500 | <19.2 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | | | 2370 | mg/Kg | 5 | 2500 | <19.2 | 95 | 85 - 115 | 8 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 122539 Date Analyzed: 2015-06-23 Analyzed By: AK
Prep Batch: 103647 QC Preparation: 2015-06-22 Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | |
|--------------|---|---|------------|-------|-------|--------------|---------------|----------|------------|----------|
| Benzene | | | 5 | 1.89 | mg/Kg | 1 | 2.00 | <0.00533 | 94 | 70 - 130 |
| Toluene | | | 5 | 1.80 | mg/Kg | 1 | 2.00 | <0.00645 | 90 | 70 - 130 |
| Ethylbenzene | | | 5 | 1.73 | mg/Kg | 1 | 2.00 | <0.0116 | 86 | 70 - 130 |
| Xylene | | | 5 | 5.64 | mg/Kg | 1 | 6.00 | <0.00874 | 94 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit | |
|--------------|---|---|-------------|-------|-------|--------------|---------------|----------|------------|----------|-----------|----|
| Benzene | | | 5 | 1.93 | mg/Kg | 1 | 2.00 | <0.00533 | 96 | 70 - 130 | 2 | 20 |
| Toluene | | | 5 | 1.81 | mg/Kg | 1 | 2.00 | <0.00645 | 90 | 70 - 130 | 1 | 20 |
| Ethylbenzene | | | 5 | 1.74 | mg/Kg | 1 | 2.00 | <0.0116 | 87 | 70 - 130 | 1 | 20 |
| Xylene | | | 5 | 5.70 | mg/Kg | 1 | 6.00 | <0.00874 | 95 | 70 - 130 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | F | C | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. | Limit |
|------------------------------|---|---|------------|-------------|-------|------|--------------|----------|-----------|----------|-------|
| Trifluorotoluene (TFT) | | | 1.86 | 1.76 | mg/Kg | 1 | 2.00 | 93 | 88 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | | | 1.83 | 1.75 | mg/Kg | 1 | 2.00 | 92 | 88 | 70 - 130 | |

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Laboratory Control Spike (LCS-1)

QC Batch: 122540 Date Analyzed: 2015-06-23 Analyzed By: AK
Prep Batch: 103647 QC Preparation: 2015-06-22 Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|------------|-------|------|--------------|---------------|------|------------|
| GRO | 5 | | 15.5 | mg/Kg | 1 | 20.0 | <2.32 | 78 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Limit |
|-------|---|---|-------------|-------|------|--------------|---------------|------|----------|-------|
| GRO | 5 | | 15.3 | mg/Kg | 1 | 20.0 | <2.32 | 76 | 70 - 130 | 1 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | F | C | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---|---|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | | | 2.34 | 2.35 | mg/Kg | 1 | 2.00 | 117 | 118 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.09 | 2.12 | mg/Kg | 1 | 2.00 | 104 | 106 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 122620 Date Analyzed: 2015-06-24 Analyzed By: SC
Prep Batch: 103689 QC Preparation: 2015-06-23 Prepared By: SC

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|------------|-------|------|--------------|---------------|------|------------|
| DRO | 5 | | 295 | mg/Kg | 1 | 250 | <7.41 | 118 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Limit |
|-------|---|---|-------------|-------|------|--------------|---------------|------|----------|-------|
| DRO | 5 | | 271 | mg/Kg | 1 | 250 | <7.41 | 108 | 70 - 130 | 8 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | F | C | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|---|---|------------|-------------|-------|------|--------------|----------|-----------|------------|
| n-Tricosane | | | 49.0 | 42.9 | mg/Kg | 1 | 50.0 | 98 | 86 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 122683 Date Analyzed: 2015-06-26 Analyzed By: ZY
Prep Batch: 103768 QC Preparation: 2015-06-26 Prepared By: ZY

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| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| TRPHC | | | 52.2 | mg/Kg | 1 | 50.0 | <4.53 | 104 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD | | | Spike | | Matrix | | Rec. | | RPD | |
|-------|------|---|--------|-------|------|--------|--------|------|----------|-----|-------|
| | F | C | Result | Units | Dil. | Amount | Result | Rec. | Limit | RPD | Limit |
| TRPHC | | | 54.2 | mg/Kg | 1 | 50.0 | <4.53 | 108 | 80 - 120 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 122743
Prep Batch: 103811

Date Analyzed: 2015-06-29
QC Preparation: 2015-06-29

Analyzed By: TP
Prepared By: TP

| Param | F | C | LCS | | Dil. | Spike Amount | Matrix | | Rec. | Rec. Limit |
|---------------|---|-----------|--------|-------|------|--------------|----------|------|----------|------------|
| | | | Result | Units | | | Result | Rec. | | |
| Total Mercury | | 1,2,3,4,6 | 0.254 | mg/Kg | 1 | 0.250 | <0.00325 | 102 | 80 - 120 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit | |
|---------------|---|---|----------------|-------|-------|-----------------|------------------|----------|---------------|----------|--------------|----|
| Total Mercury | | | 1,2,3,4,6 | 0.251 | mg/Kg | 1 | 0.250 | <0.00325 | 100 | 80 - 120 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 122777
Prep Batch: 103849

Date Analyzed: 2015-06-30
QC Preparation: 2015-06-29

Analyzed By: RL
Prepared By: RL

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---------|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 8, 4, 6 | 239 | mg/Kg | 1 | 250 | 6.91 | 93 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD | | | Spike | | Matrix | | Rec. | | RPD | |
|----------|------|-------|--------|-------|------|--------|--------|------|----------|-----|-------|
| | F | C | Result | Units | Dil. | Amount | Result | Rec. | Limit | RPD | Limit |
| Chloride | | 3,4,6 | 239 | mg/Kg | 1 | 250 | 6.91 | 93 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Laboratory Control Spike (LCS-1)

QC Batch: 122777 Date Analyzed: 2015-06-30 Analyzed By: RL
Prep Batch: 103849 QC Preparation: 2015-06-29 Prepared By: RL

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Sulfate | | | 254 | mg/Kg | 1 | 250 | <3.72 | 102 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Sulfate | | | 241 | mg/Kg | 1 | 250 | <3.72 | 96 | 90 - 110 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 122879 Date Analyzed: 2015-07-06 Analyzed By: RR
Prep Batch: 103886 QC Preparation: 2015-07-02 Prepared By: PM

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Total Calcium | | | 4500 | mg/Kg | 1 | 5000 | <7.70 | 90 | 85 - 115 |
| Total Magnesium | | | 4560 | mg/Kg | 1 | 5000 | <4.74 | 91 | 85 - 115 |
| Total Potassium | | | 4520 | mg/Kg | 1 | 5000 | <5.79 | 90 | 85 - 115 |
| Total Sodium | | | 4720 | mg/Kg | 1 | 5000 | <9.52 | 94 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Total Calcium | | | 4840 | mg/Kg | 1 | 5000 | <7.70 | 97 | 85 - 115 | 7 | 20 |
| Total Magnesium | | | 4860 | mg/Kg | 1 | 5000 | <4.74 | 97 | 85 - 115 | 6 | 20 |
| Total Potassium | | | 4750 | mg/Kg | 1 | 5000 | <5.79 | 95 | 85 - 115 | 5 | 20 |
| Total Sodium | | | 5090 | mg/Kg | 1 | 5000 | <9.52 | 102 | 85 - 115 | 8 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 122879 Date Analyzed: 2015-07-06 Analyzed By: RR
Prep Batch: 103886 QC Preparation: 2015-07-02 Prepared By: PM

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control spikes continued . . .

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------------|---|---|--------------|-------|------|--------------|---------------|------|------------|
| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
| Total Silver | | | 2,3,4,6 11.8 | mg/Kg | 1 | 12.5 | <0.0356 | 94 | 85 - 115 |
| Total Arsenic | | | 2,3,4,6 43.9 | mg/Kg | 1 | 50.0 | <0.568 | 88 | 85 - 115 |
| Total Barium | | | 2,3,4,6 87.7 | mg/Kg | 1 | 100 | <0.105 | 88 | 85 - 115 |
| Total Cadmium | | | 2,3,4,6 22.8 | mg/Kg | 1 | 25.0 | <0.0303 | 91 | 85 - 115 |
| Total Chromium | | | 2,3,4,6 8.73 | mg/Kg | 1 | 10.0 | <0.118 | 87 | 85 - 115 |
| Total Lead | | | 2,3,4,6 44.5 | mg/Kg | 1 | 50.0 | <0.140 | 89 | 85 - 115 |
| Total Selenium | | | 2,3,4,6 43.7 | mg/Kg | 1 | 50.0 | <0.451 | 87 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------------|---|---|--------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Total Silver | | | 2,3,4,6 11.6 | mg/Kg | 1 | 12.5 | <0.0356 | 93 | 85 - 115 | 2 | 20 |
| Total Arsenic | | | 2,3,4,6 47.8 | mg/Kg | 1 | 50.0 | <0.568 | 96 | 85 - 115 | 8 | 20 |
| Total Barium | | | 2,3,4,6 94.5 | mg/Kg | 1 | 100 | <0.105 | 94 | 85 - 115 | 8 | 20 |
| Total Cadmium | | | 2,3,4,6 24.8 | mg/Kg | 1 | 25.0 | <0.0303 | 99 | 85 - 115 | 8 | 20 |
| Total Chromium | | | 2,3,4,6 9.09 | mg/Kg | 1 | 10.0 | <0.118 | 91 | 85 - 115 | 4 | 20 |
| Total Lead | | | 2,3,4,6 49.3 | mg/Kg | 1 | 50.0 | <0.140 | 99 | 85 - 115 | 10 | 20 |
| Total Selenium | | | 2,3,4,6 43.7 | mg/Kg | 1 | 50.0 | <0.451 | 87 | 85 - 115 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 395918

QC Batch: 122475 Date Analyzed: 2015-06-19 Analyzed By: AK
Prep Batch: 103564 QC Preparation: 2015-06-18 Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Chloride | | | 2370 | mg/Kg | 5 | 2500 | <19.2 | 95 | 78.9 - 121 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | | | 2370 | mg/Kg | 5 | 2500 | <19.2 | 95 | 78.9 - 121 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 395922

QC Batch: 122539 Date Analyzed: 2015-06-23 Analyzed By: AK
Prep Batch: 103647 QC Preparation: 2015-06-22 Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | | s | 1.78 | mg/Kg | 1 | 2.00 | <0.00533 | 89 | 70 - 130 |
| Toluene | | s | 1.72 | mg/Kg | 1 | 2.00 | <0.00645 | 86 | 70 - 130 |
| Ethylbenzene | | s | 1.70 | mg/Kg | 1 | 2.00 | <0.0116 | 85 | 70 - 130 |
| Xylene | | s | 5.63 | mg/Kg | 1 | 6.00 | <0.00874 | 94 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | | s | 1.66 | mg/Kg | 1 | 2.00 | <0.00533 | 83 | 70 - 130 | 7 | 20 |
| Toluene | | s | 1.59 | mg/Kg | 1 | 2.00 | <0.00645 | 80 | 70 - 130 | 8 | 20 |
| Ethylbenzene | | s | 1.59 | mg/Kg | 1 | 2.00 | <0.0116 | 80 | 70 - 130 | 7 | 20 |
| Xylene | | s | 5.25 | mg/Kg | 1 | 6.00 | <0.00874 | 88 | 70 - 130 | 7 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | F | C | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. | Limit |
|------------------------------|---|---|-----------|------------|-------|------|--------------|---------|----------|----------|-------|
| Trifluorotoluene (TFT) | | | 1.84 | 1.89 | mg/Kg | 1 | 2 | 92 | 94 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | | | 1.92 | 1.96 | mg/Kg | 1 | 2 | 96 | 98 | 70 - 130 | |

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Matrix Spike (MS-1) Spiked Sample: 395922

QC Batch: 122540 Date Analyzed: 2015-06-23 Analyzed By: AK
Prep Batch: 103647 QC Preparation: 2015-06-22 Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|-------|---|------|-----------|-------|------|--------------|---------------|-----------|------------|
| GRO | 5 | 14.8 | mg/Kg | 1 | 20.0 | <2.32 | 74 | 70 - 130 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. RPD Limit |
|-------|----|---|------------|-------|------|--------------|---------------|-----------|----------------|
| GRO | Qs | 5 | 13.8 | mg/Kg | 1 | 20.0 | <2.32 | 69 | 70 - 130 7 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | F | C | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Rec. |
|------------------------------|---|---|-----------|------------|-------|------|--------------|---------|----------|-----------|
| Trifluorotoluene (TFT) | | | 2.49 | 2.48 | mg/Kg | 1 | 2 | 124 | 124 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.20 | 2.21 | mg/Kg | 1 | 2 | 110 | 110 | 70 - 130 |

Matrix Spike (xMS-1) Spiked Sample: 396522

QC Batch: 122620 Date Analyzed: 2015-06-24 Analyzed By: SC
Prep Batch: 103689 QC Preparation: 2015-06-23 Prepared By: SC

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|-------|---|-----|-----------|-------|------|--------------|---------------|-----------|------------|
| DRO | 5 | 268 | mg/Kg | 1 | 250 | <7.41 | 107 | 70 - 130 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. RPD Limit |
|-------|---|-----|------------|-------|------|--------------|---------------|------------|----------------|
| DRO | 5 | 292 | mg/Kg | 1 | 250 | <7.41 | 117 | 70 - 130 9 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | F | C | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Rec. |
|-------------|---|---|-----------|------------|-------|------|--------------|---------|----------|-----------|
| n-Tricosane | | | 41.1 | 45.0 | mg/Kg | 1 | 50 | 82 | 90 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 396026

QC Batch: 122683 Date Analyzed: 2015-06-26 Analyzed By: ZY
Prep Batch: 103768 QC Preparation: 2015-06-26 Prepared By: ZY

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| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| TRPHC | | | 56.1 | mg/Kg | 2 | 50.0 | 9.21 | 94 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| TRPHC | | | 58.0 | mg/Kg | 2 | 50.0 | 9.21 | 98 | 80 - 120 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 395714

QC Batch: 122743 Date Analyzed: 2015-06-29 Analyzed By: TP
Prep Batch: 103811 QC Preparation: 2015-06-29 Prepared By: TP

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------|---|---|-----------------|-------|------|--------------|---------------|------|------------|
| Total Mercury | | | 1,2,3,4,6 0.258 | mg/Kg | 1 | 0.250 | <0.00325 | 103 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------|---|---|-----------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Total Mercury | | | 1,2,3,4,6 0.272 | mg/Kg | 1 | 0.250 | <0.00325 | 109 | 80 - 120 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 396611

QC Batch: 122777 Date Analyzed: 2015-06-30 Analyzed By: RL
Prep Batch: 103849 QC Preparation: 2015-06-29 Prepared By: RL

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|----|-------|-----------|-------|------|--------------|---------------|------|------------|
| Chloride | Q8 | 3,4,6 | 856 | mg/Kg | 2 | 250 | 462 | 158 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|----|-------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | Q8 | 3,4,6 | 773 | mg/Kg | 2 | 250 | 462 | 124 | 80 - 120 | 10 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Matrix Spike (MS-1) Spiked Sample: 396611

QC Batch: 122777 Date Analyzed: 2015-06-30 Analyzed By: RL
Prep Batch: 103849 QC Preparation: 2015-06-29 Prepared By: RL

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Sulfate | | | 395 | mg/Kg | 2 | 250 | 124 | 108 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Sulfate | | | 388 | mg/Kg | 2 | 250 | 124 | 106 | 80 - 120 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-2) Spiked Sample: 396613

QC Batch: 122777 Date Analyzed: 2015-06-30 Analyzed By: RL
Prep Batch: 103849 QC Preparation: 2015-06-29 Prepared By: RL

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Chloride | | | 2560 | mg/Kg | 5 | 250 | 2010 | 220 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | | | 2500 | mg/Kg | 5 | 250 | 2010 | 196 | 80 - 120 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-2) Spiked Sample: 396613

QC Batch: 122777 Date Analyzed: 2015-06-30 Analyzed By: RL
Prep Batch: 103849 QC Preparation: 2015-06-29 Prepared By: RL

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Sulfate | | | 320 | mg/Kg | 5 | 250 | 71.1 | 100 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Sulfate | | | 329 | mg/Kg | 5 | 250 | 71.1 | 103 | 80 - 120 | 3 | 20 |

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Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 395974

QC Batch: 122879 Date Analyzed: 2015-07-06 Analyzed By: RR
Prep Batch: 103886 QC Preparation: 2015-07-02 Prepared By: PM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------|---|---------|-----------|-------|------|--------------|---------------|------|------------|
| Total Calcium | | 2,3,4,6 | 5200 | mg/Kg | 1 | 5000 | <7.70 | 104 | 75 - 125 |
| Total Magnesium | | 2,3,4,6 | 4950 | mg/Kg | 1 | 5000 | <4.74 | 99 | 75 - 125 |
| Total Potassium | | 2,3,4,6 | 4870 | mg/Kg | 1 | 5000 | <5.79 | 97 | 75 - 125 |
| Total Sodium | | 2,3,4,6 | 5130 | mg/Kg | 1 | 5000 | <9.52 | 103 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------------|---|---------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Total Calcium | | 2,3,4,6 | 4860 | mg/Kg | 1 | 5000 | <7.70 | 97 | 75 - 125 | 7 | 20 |
| Total Magnesium | | 2,3,4,6 | 4770 | mg/Kg | 1 | 5000 | <4.74 | 95 | 75 - 125 | 4 | 20 |
| Total Potassium | | 2,3,4,6 | 5090 | mg/Kg | 1 | 5000 | <5.79 | 102 | 75 - 125 | 4 | 20 |
| Total Sodium | | 2,3,4,6 | 4940 | mg/Kg | 1 | 5000 | <9.52 | 99 | 75 - 125 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 395974

QC Batch: 122879 Date Analyzed: 2015-07-06 Analyzed By: RR
Prep Batch: 103886 QC Preparation: 2015-07-02 Prepared By: PM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------------|---|---------|-----------|-------|------|--------------|---------------|------|------------|
| Total Silver | | 2,3,4,6 | 11.4 | mg/Kg | 1 | 12.5 | <0.0356 | 91 | 75 - 125 |
| Total Arsenic | | 2,3,4,6 | 50.4 | mg/Kg | 1 | 50.0 | 5.69 | 89 | 75 - 125 |
| Total Barium | | 2,3,4,6 | 163 | mg/Kg | 1 | 100 | 82.9 | 80 | 75 - 125 |
| Total Cadmium | | 2,3,4,6 | 24.1 | mg/Kg | 1 | 25.0 | <0.0303 | 96 | 75 - 125 |
| Total Chromium | | 2,3,4,6 | 13.1 | mg/Kg | 1 | 10.0 | 4.57 | 85 | 75 - 125 |
| Total Lead | | 2,3,4,6 | 46.8 | mg/Kg | 1 | 50.0 | 1.97 | 90 | 75 - 125 |
| Total Selenium | | 2,3,4,6 | 38.9 | mg/Kg | 1 | 50.0 | <0.451 | 78 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------|---|---------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Total Silver | | 2,3,4,6 | 10.7 | mg/Kg | 1 | 12.5 | <0.0356 | 86 | 75 - 125 | 6 | 20 |
| Total Arsenic | | 2,3,4,6 | 44.2 | mg/Kg | 1 | 50.0 | 5.69 | 77 | 75 - 125 | 13 | 20 |
| Total Barium | | 2,3,4,6 | 158 | mg/Kg | 1 | 100 | 82.9 | 75 | 75 - 125 | 3 | 20 |

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matrix spikes continued ...

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD RPD | RPD Limit |
|----------------|---|---|---------------|-------|------|-----------------|------------------|--------------|---------------|------------|--------------|
| Total Cadmium | | | 23.4 | mg/Kg | 1 | 25.0 | <0.0303 | 94 | 75 - 125 | 3 | 20 |
| Total Chromium | | | 12.1 | mg/Kg | 1 | 10.0 | 4.57 | 75 | 75 - 125 | 8 | 20 |
| Total Lead | | | 41.5 | mg/Kg | 1 | 50.0 | 1.97 | 79 | 75 - 125 | 12 | 20 |
| Total Selenium | | | 38.9 | mg/Kg | 1 | 50.0 | <0.451 | 78 | 75 - 125 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (ICV-1)

| | | | Date Analyzed: | 2015-06-19 | Analyzed By: | AK | |
|----------|---|---|-----------------------|------------------------|-----------------------------|-------------------------------|--------------------------|
| Param | F | C | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| Chloride | | | mg/Kg | 100 | 100 | 100 | 85 - 115 2015-06-19 |

Standard (CCV-1)

| | | | Date Analyzed: | 2015-06-19 | Analyzed By: | AK | |
|----------|---|---|-----------------------|------------------------|-----------------------------|-------------------------------|--------------------------|
| Param | F | C | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| Chloride | | | mg/Kg | 100 | 100 | 100 | 85 - 115 2015-06-19 |

Standard (CCV-1)

| | | | Date Analyzed: | 2015-06-23 | Analyzed By: | AK | |
|--------------|---|---|-----------------------|------------------------|-----------------------------|-------------------------------|--------------------------|
| Param | F | C | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| Benzene | 5 | | mg/kg | 0.100 | 0.0958 | 96 | 80 - 120 2015-06-23 |
| Toluene | 5 | | mg/kg | 0.100 | 0.0891 | 89 | 80 - 120 2015-06-23 |
| Ethylbenzene | 5 | | mg/kg | 0.100 | 0.0848 | 85 | 80 - 120 2015-06-23 |
| Xylene | 5 | | mg/kg | 0.300 | 0.278 | 93 | 80 - 120 2015-06-23 |

Standard (CCV-2)

| | | | Date Analyzed: | 2015-06-23 | Analyzed By: | AK | |
|---------|---|---|-----------------------|------------------------|-----------------------------|-------------------------------|--------------------------|
| Param | F | C | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| Benzene | 5 | | mg/kg | 0.100 | 0.0950 | 95 | 80 - 120 2015-06-23 |
| Toluene | 5 | | mg/kg | 0.100 | 0.0905 | 90 | 80 - 120 2015-06-23 |

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standard continued . . .

| Param | F | C | Units | CCVs | CCVs | CCVs | Percent | Date |
|--------------|-------|----------|--------|-------|--------|---------|----------|------------|
| | | | | True | Found | Percent | Recovery | Analyzed |
| Conc. | Conc. | Recovery | Limits | | | | | |
| Ethylbenzene | 5 | | mg/kg | 0.100 | 0.0861 | 86 | 80 - 120 | 2015-06-23 |
| Xylene | 5 | | mg/kg | 0.300 | 0.283 | 94 | 80 - 120 | 2015-06-23 |

Standard (CCV-1)

QC Batch: 122540

Date Analyzed: 2015-06-23

Analyzed By: AK

| Param | F | C | Units | CCVs | CCVs | CCVs | Percent | Date |
|-------|---|-------|-------|------------|-------------|------------------|-----------------|------------|
| | | | | True Conc. | Found Conc. | Percent Recovery | Recovery Limits | Analyzed |
| GRO | 5 | mg/Kg | | 1.00 | 0.968 | 97 | 80 - 120 | 2015-06-23 |

Standard (CCV-2)

QC Batch: 122540

Date Analyzed: 2015-06-23

Analyzed By: AK

| Param | F | C | Units | CCVs | CCVs | CCVs | Percent | Date Analyzed |
|-------|---|---|-------|------------|-------------|------------------|-----------------|---------------|
| | | | | True Conc. | Found Conc. | Percent Recovery | Recovery Limits | |
| GRO | 5 | | mg/Kg | 1.00 | 0.964 | 96 | 80 - 120 | 2015-06-23 |

Standard (CCV-1)

QC Batch: 122620

Date Analyzed: 2015-06-24

Analyzed By: SC

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | 5 | | mg/Kg | 250 | 273 | 109 | 80 - 120 | 2015-06-24 |

Standard (CCV-2)

QC Batch: 122620

Date Analyzed: 2015-06-24

Analyzed By: SC

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| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | 5 | | mg/Kg | 250 | 279 | 112 | 80 - 120 | 2015-06-24 |

Standard (ICV-1)

QC Batch: 122683 Date Analyzed: 2015-06-26 Analyzed By: ZY

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TRPHC | | | mg/Kg | 50.0 | 59.9 | 120 | 80 - 120 | 2015-06-26 |

Standard (CCV-1)

QC Batch: 122683 Date Analyzed: 2015-06-26 Analyzed By: ZY

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| TRPHC | | | mg/Kg | 50.0 | 52.2 | 104 | 80 - 120 | 2015-06-26 |

Standard (CCV-1)

QC Batch: 122743 Date Analyzed: 2015-06-29 Analyzed By: TP

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Mercury | | | mg/L | 0.0100 | 0.0100 | 100 | 90 - 110 | 2015-06-29 |

Standard (CCV-2)

QC Batch: 122743 Date Analyzed: 2015-06-29 Analyzed By: TP

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Mercury | | | mg/L | 0.0100 | 0.0104 | 104 | 90 - 110 | 2015-06-29 |

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Standard (CCV-1)

QC Batch: 122777 Date Analyzed: 2015-06-30 Analyzed By: RL

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 25.0 | 24.1 | 96 | 90 - 110 | 2015-06-30 |

Standard (CCV-1)

QC Batch: 122777 Date Analyzed: 2015-06-30 Analyzed By: RL

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | | mg/Kg | 25.0 | 25.2 | 101 | 90 - 110 | 2015-06-30 |

Standard (CCV-2)

QC Batch: 122777 Date Analyzed: 2015-06-30 Analyzed By: RL

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 25.0 | 25.3 | 101 | 90 - 110 | 2015-06-30 |

Standard (CCV-2)

QC Batch: 122777 Date Analyzed: 2015-06-30 Analyzed By: RL

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | | mg/Kg | 25.0 | 27.0 | 108 | 90 - 110 | 2015-06-30 |

Standard (ICV-1)

QC Batch: 122778 Date Analyzed: 2015-07-01 Analyzed By: LQ

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| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------------|---|---|----------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Hydroxide Alkalinity | 1 | | mg/Kg as CaCo3 | 0.00 | <20.0 | | - | 2015-07-01 |
| Carbonate Alkalinity | 1 | | mg/Kg as CaCo3 | 0.00 | 224 | | - | 2015-07-01 |
| Bicarbonate Alkalinity | 1 | | mg/Kg as CaCo3 | 0.00 | <20.0 | | - | 2015-07-01 |
| Total Alkalinity | 1 | | mg/Kg as CaCo3 | 250 | 233 | 93 | 90 - 110 | 2015-07-01 |

Standard (CCV-1)

QC Batch: 122778 Date Analyzed: 2015-07-01 Analyzed By: LQ

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------------|---|---|----------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Hydroxide Alkalinity | 1 | | mg/Kg as CaCo3 | 0.00 | <20.0 | | - | 2015-07-01 |
| Carbonate Alkalinity | 1 | | mg/Kg as CaCo3 | 0.00 | 236 | | - | 2015-07-01 |
| Bicarbonate Alkalinity | 1 | | mg/Kg as CaCo3 | 0.00 | <20.0 | | - | 2015-07-01 |
| Total Alkalinity | 1 | | mg/Kg as CaCo3 | 250 | 240 | 96 | 90 - 110 | 2015-07-01 |

Standard (ICV-1)

QC Batch: 122879 Date Analyzed: 2015-07-06 Analyzed By: RR

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-----------------|---------|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Calcium | 2,3,4,6 | | mg/Kg | 25.5 | 27.2 | 107 | 90 - 110 | 2015-07-06 |
| Total Magnesium | 2,3,4,6 | | mg/Kg | 25.5 | 27.3 | 107 | 90 - 110 | 2015-07-06 |
| Total Potassium | 2,3,4,6 | | mg/Kg | 27.5 | 28.9 | 105 | 90 - 110 | 2015-07-06 |
| Total Sodium | 2,3,4,6 | | mg/Kg | 25.5 | 27.1 | 106 | 90 - 110 | 2015-07-06 |

Standard (ICV-1)

QC Batch: 122879 Date Analyzed: 2015-07-06 Analyzed By: RR

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------|---------|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Silver | 2,3,4,6 | | mg/Kg | 0.125 | 0.133 | 106 | 90 - 110 | 2015-07-06 |
| Total Arsenic | 2,3,4,6 | | mg/Kg | 1.00 | 1.04 | 104 | 90 - 110 | 2015-07-06 |
| Total Barium | 2,3,4,6 | | mg/Kg | 1.00 | 1.05 | 105 | 90 - 110 | 2015-07-06 |
| Total Cadmium | 2,3,4,6 | | mg/Kg | 1.00 | 1.08 | 108 | 90 - 110 | 2015-07-06 |

continued ...

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standard continued ...

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------|---|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Chromium | | 2,3,4,6 | mg/Kg | 1.00 | 1.07 | 107 | 90 - 110 | 2015-07-06 |
| Total Lead | | 2,3,4,6 | mg/Kg | 1.00 | 1.05 | 105 | 90 - 110 | 2015-07-06 |
| Total Selenium | | 2,3,4,6 | mg/Kg | 1.00 | 1.08 | 108 | 90 - 110 | 2015-07-06 |

Standard (CCV-1)

QC Batch: 122879

Date Analyzed: 2015-07-06

Analyzed By: RR

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-----------------|---|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Calcium | | 2,3,4,6 | mg/Kg | 25.5 | 23.7 | 93 | 90 - 110 | 2015-07-06 |
| Total Magnesium | | 2,3,4,6 | mg/Kg | 25.5 | 23.5 | 92 | 90 - 110 | 2015-07-06 |
| Total Potassium | | 2,3,4,6 | mg/Kg | 27.5 | 25.9 | 94 | 90 - 110 | 2015-07-06 |
| Total Sodium | | 2,3,4,6 | mg/Kg | 25.5 | 25.1 | 98 | 90 - 110 | 2015-07-06 |

Standard (CCV-1)

QC Batch: 122879

Date Analyzed: 2015-07-06

Analyzed By: RR

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------|---|---------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Silver | | 2,3,4,6 | mg/Kg | 0.125 | 0.123 | 98 | 90 - 110 | 2015-07-06 |
| Total Arsenic | | 2,3,4,6 | mg/Kg | 1.00 | 0.947 | 95 | 90 - 110 | 2015-07-06 |
| Total Barium | | 2,3,4,6 | mg/Kg | 1.00 | 0.990 | 99 | 90 - 110 | 2015-07-06 |
| Total Cadmium | | 2,3,4,6 | mg/Kg | 1.00 | 0.988 | 99 | 90 - 110 | 2015-07-06 |
| Total Chromium | | 2,3,4,6 | mg/Kg | 1.00 | 0.977 | 98 | 90 - 110 | 2015-07-06 |
| Total Lead | | 2,3,4,6 | mg/Kg | 1.00 | 0.941 | 94 | 90 - 110 | 2015-07-06 |
| Total Selenium | | 2,3,4,6 | mg/Kg | 1.00 | 0.959 | 96 | 90 - 110 | 2015-07-06 |

Limits of Detection (LOD)

| Test | Method | Matrix | Instrument | Analyte | Spike Amount | Pass |
|----------------------|--------------|--------|------------------|------------------------|--------------|------|
| Ag, Total | S 6010C | soil | PE 8300 | Total Silver | 0.0500 | Pass |
| Alkalinity | SM 2320B | soil | N/A | Hydroxide Alkalinity | 0.00 | - |
| Alkalinity | SM 2320B | soil | N/A | Carbonate Alkalinity | 0.00 | - |
| Alkalinity | SM 2320B | soil | N/A | Bicarbonate Alkalinity | 0.00 | - |
| Alkalinity | SM 2320B | soil | N/A | Total Alkalinity | 0.00 | - |
| As, Total | S 6010C | soil | PE 8300 | Total Arsenic | 0.500 | Pass |
| Ba, Total | S 6010C | soil | PE 8300 | Total Barium | 0.500 | Pass |
| BTEX | S 8021B | soil | BTEX-2 | Benzene | 0.0120 | Pass |
| BTEX | S 8021B | soil | BTEX-2 | Toluene | 0.0120 | Pass |
| BTEX | S 8021B | soil | BTEX-2 | Ethylbenzene | 0.0120 | Pass |
| BTEX | S 8021B | soil | BTEX-2 | Xylene | 0.0120 | Pass |
| Ca, Total | S 6010C | soil | PE 8300 | Total Calcium | 0.500 | Pass |
| Cd, Total | S 6010C | soil | PE 8300 | Total Cadmium | 0.0500 | Pass |
| Chloride (IC) | E 300.0 | soil | Dionex IC | Chloride | 10.0 | Pass |
| Chloride (Titration) | SM 4500-Cl B | soil | N/A | Chloride | 10.0 | Pass |
| Cr, Total | S 6010C | soil | PE 8300 | Total Chromium | 0.250 | Pass |
| Hg, Total | S 7471 B | soil | Mercury Analyzer | Total Mercury | 0.00500 | Pass |
| K, Total | S 6010C | soil | PE 8300 | Total Potassium | 0.125 | Pass |
| Mg, Total | S 6010C | soil | PE 8300 | Total Magnesium | 0.0500 | Pass |
| Na, Total | S 6010C | soil | PE 8300 | Total Sodium | 0.100 | Pass |
| Pb, Total | S 6010C | soil | PE 8300 | Total Lead | 0.500 | Pass |
| Se, Total | S 6010C | soil | PE 8300 | Total Selenium | 0.500 | Pass |
| SO4 (IC) | E 300.0 | soil | Dionex IC | Sulfate | 10.0 | Pass |
| TPH 418.1 | E 418.1 | soil | FT-IR (2) | TRPHC | 15.0 | Pass |
| TPH DRO | S 8015 D | soil | TPH-1 | DRO | 30.0 | Pass |
| TPH GRO | S 8015 D | soil | BTEX-2 | GRO | 5.00 | Pass |

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | L-A-B | L2418 | Lubbock |
| 2 | Kansas | Kansas E-10317 | Lubbock |
| 3 | LELAP | LELAP-02003 | Lubbock |
| 4 | NELAP | T104704219-15-11 | Lubbock |
| 5 | NELAP | T104704392-14-8 | Midland |
| 6 | | 2014-018 | Lubbock |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| MI1 | Split peak or shoulder peak |
| MI2 | Instrument software did not integrate |
| MI3 | Instrument software misidentified the peak |
| MI4 | Instrument software integrated improperly |
| MI5 | Baseline correction |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

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Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

WOT#: 15061746

CHAIN-OF-CUSTODY

Arson & Associates, Inc.
Environmental Consultants

Data Reported to:

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 6/17/15

PAGE 1 OF 1

LAB WORK ORDER

PROJECT LOCATION OR NAME: R360 Aviation Landform

LAI PROJECT #: 15-0121-01 COLLECTOR: Sarah S. B.

TIME ZONE:
Time zone/State:

Field
Sample I.D.

Cell 2 (NS) 01 6/16/15 12:45

TOTAL

~~RELINQUISHED BY:~~ (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RElinquished by: (Signature)

DATE/TIME

RECEIVED BY (Signature)

TURN AROUND TIME

NORMAL

1 DAY

2 DAY

OTHER

LABORATORY USE ONLY

RECEIVING TEMP: 13

THEIRM # R 3

CUSTODY SEALS - BROKEN INTACT NOT USED

153818/18

CARRIER BILL # 323017677

HAND DELIVERED

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 806-794-1296 FAX 806-794-1296
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail lab@traceanalysis.com WEB www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

(Corrected Report)

Sarah Shissler
Larson and Associates, Inc.

Report Date: June 1, 2016

P. O. Box 50685
Midland, TX, 79710

Work Order: 15080501



Project Name: Artesia Land Farm
Project Number: 15-0121-01

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-----------------|--------|------------|------------|---------------|
| 400917 | DP-Cell 1 (2-3) | soil | 2015-08-04 | 14:00 | 2015-08-05 |
| 400918 | Cell 1 Comp | soil | 2015-08-04 | 14:05 | 2015-08-05 |
| 400919 | DP-Cell 2 (2-3) | soil | 2015-08-04 | 14:15 | 2015-08-05 |
| 400920 | DP-Cell 3 (2-3) | soil | 2015-08-04 | 14:30 | 2015-08-05 |
| 400921 | Cell 3 Comp | soil | 2015-08-04 | 14:35 | 2015-08-05 |
| 400922 | DP-Cell 4 (2-3) | soil | 2015-08-04 | 14:45 | 2015-08-05 |
| 400923 | Cell 4 Comp | soil | 2015-08-04 | 14:50 | 2015-08-05 |
| 400924 | DP-Cell 5 (2-3) | soil | 2015-08-04 | 15:00 | 2015-08-05 |
| 400925 | Cell 5 Comp | soil | 2015-08-04 | 15:05 | 2015-08-05 |

Report Corrections (Work Order 15080501)

- 9/11/15: Corrected Project Name.
- 5/31/16: Added TPH DRO to all samples.

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch

basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 28 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Johnny Grindstaff, Operations Manager

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| QC Batch 123888 - CCV (1) | 24 |
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| QC Batch 124084 - CCV (1) | 25 |
| QC Batch 124119 - ICV (1) | 25 |
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Case Narrative

Samples for project Artesia Land Farm were received by TraceAnalysis, Inc. on 2015-08-05 and assigned to work order 15080501. Samples for work order 15080501 were received intact at a temperature of 3.6 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|----------------------|--------------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 104681 | 2015-08-06 at 15:50 | 123800 | 2015-08-07 at 07:03 |
| Chloride (Titration) | SM 4500-Cl B | 104752 | 2015-08-10 at 16:44 | 123888 | 2015-08-10 at 16:45 |
| Chloride (Titration) | SM 4500-Cl B | 104919 | 2015-08-17 at 10:10 | 124084 | 2015-08-17 at 10:12 |
| Chloride (Titration) | SM 4500-Cl B | 104945 | 2015-08-17 at 17:07 | 124119 | 2015-08-17 at 17:08 |
| TPH DRO | S 8015 D | 110490 | 2015-08-05 at 20:00 | 130414 | 2015-08-05 at 21:44 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15080501 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: June 1, 2016
15-0121-01

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Analytical Report

Sample: 400917 - DP-Cell 1 (2-3)

| | | | | | | | |
|-------------|---------|----------------|------------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | Analysis: | BTEX | Analytical Method: | S 8021B | Prep Method: | S 5035 |
| QC Batch: | 123800 | Date Analyzed: | 2015-08-07 | Sample Preparation: | 2015-08-06 | Analyzed By: | AK |
| Prep Batch: | 104681 | | | | | Prepared By: | AK |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|---------|-------|----------|--------|
| Benzene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.87 | mg/Kg | 1 | 2.00 | 94 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.92 | mg/Kg | 1 | 2.00 | 96 | 70 - 130 |

Sample: 400917 - DP-Cell 1 (2-3)

| | | | | | | | |
|-------------|---------|----------------|----------------------|---------------------|--------------|--------------|-----|
| Laboratory: | Midland | Analysis: | Chloride (Titration) | Analytical Method: | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch: | 123888 | Date Analyzed: | 2015-08-10 | Sample Preparation: | 2015-08-10 | Analyzed By: | AM |
| Prep Batch: | 104752 | | | | | Prepared By: | AM |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| Chloride | U | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 400917 - DP-Cell 1 (2-3)

| | | | | | | | |
|-------------|---------|----------------|------------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analysis: | TPH DRO | Analytical Method: | S 8015 D | Prep Method: | N/A |
| QC Batch: | 130414 | Date Analyzed: | 2015-08-05 | Sample Preparation: | 2015-08-05 | Analyzed By: | AK |
| Prep Batch: | 110490 | | | | | Prepared By: | AK |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|-------|------|--------|-------|----------|------|
| DRO | Q,r,U | 1 | <50.0 | mg/Kg | 1 | 50.0 |

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| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | QSR | QSR | 80.6 | mg/Kg | 1 | 50.0 | 161 | 70 - 130 |

Sample: 400918 - Cell 1 Comp

Laboratory: Midland
Analysis: BTEX
QC Batch: 123800
Prep Batch: 104681

Analytical Method: S 8021B
Date Analyzed: 2015-08-07
Sample Preparation: 2015-08-06

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|---------|-------|----------|--------|
| Benzene | U | 1 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Toluene | U | 1 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Ethylbenzene | U | 1 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Xylene | U | 1 | <0.0400 | mg/Kg | 2 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 3.21 | mg/Kg | 2 | 4.00 | 80 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 3.38 | mg/Kg | 2 | 4.00 | 84 | 70 - 130 |

Sample: 400918 - Cell 1 Comp

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 123888
Prep Batch: 104752

Analytical Method: SM 4500-Cl B
Date Analyzed: 2015-08-10
Sample Preparation: 2015-08-10

Prep Method: N/A
Analyzed By: AM
Prepared By: AM

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| Chloride | | | 1100 | mg/Kg | 5 | 4.00 |

Sample: 400918 - Cell 1 Comp

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 130414
Prep Batch: 110490

Analytical Method: S 8015 D
Date Analyzed: 2015-08-05
Sample Preparation: 2015-08-05

Prep Method: N/A
Analyzed By: AK
Prepared By: AK

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| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-------------|------|------|--------|-------|--------------|------------------|
| DRO | Qr | 1 | <50.0 | mg/Kg | 1 | 50.0 |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery |
| n-Tricosane | Qsr | Qsr | 88.5 | mg/Kg | 1 | 50.0 |

Sample: 400919 - DP-Cell 2 (2-3)

Laboratory: Midland
Analysis: BTEX
QC Batch: 123800
Prep Batch: 104681

Analytical Method: S 8021B
Date Analyzed: 2015-08-07
Sample Preparation: 2015-08-06

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|------------------------------|------|------|---------|-------|--------------|------------------|
| Benzene | u | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | u | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | u | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | u | 1 | <0.0200 | mg/Kg | 1 | 0.0200 |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery |
| Trifluorotoluene (TFT) | | | 1.97 | mg/Kg | 1 | 2.00 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.99 | mg/Kg | 1 | 2.00 |

Sample: 400919 - DP-Cell 2 (2-3)

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 123888
Prep Batch: 104752

Analytical Method: SM 4500-Cl B
Date Analyzed: 2015-08-10
Sample Preparation: 2015-08-10

Prep Method: N/A
Analyzed By: AM
Prepared By: AM

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

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Sample: 400919 - DP-Cell 2 (2-3)

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | S 8015 D | Prep Method: | N/A |
| Analysis: | TPH DRO | Date Analyzed: | 2015-08-05 | Analyzed By: | AK |
| QC Batch: | 130414 | Sample Preparation: | 2015-08-05 | Prepared By: | AK |
| Prep Batch: | 110490 | | | | |

| Parameter | Flag | Cert | RL | Units | Dilution | RL |
|-------------|------------------|-----------------|--------|-------|----------|------------------|
| | | | <50.0 | | | |
| DRO | Q _{r,U} | 1 | <50.0 | mg/Kg | 1 | 50.0 |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount |
| n-Tricosane | Q _{sr} | Q _{sr} | 89.3 | mg/Kg | 1 | 50.0 |
| | | | | | | Percent Recovery |
| | | | | | | Recovery Limits |
| | | | | | | 70 - 130 |

Sample: 400920 - DP-Cell 3 (2-3)

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | Analytical Method: | S 8021B | Prep Method: | S 5035 |
| Analysis: | BTEX | Date Analyzed: | 2015-08-07 | Analyzed By: | AK |
| QC Batch: | 123800 | Sample Preparation: | 2015-08-06 | Prepared By: | AK |
| Prep Batch: | 104681 | | | | |

| Parameter | Flag | Cert | RL | Units | Dilution | RL |
|------------------------------|------|------|---------|-------|----------|------------------|
| | | | Result | | | |
| Benzene | 2 | u | <0.0400 | mg/Kg | 2 | 0.0200 |
| Toluene | | u | <0.0400 | mg/Kg | 2 | 0.0200 |
| Ethylbenzene | | u | <0.0400 | mg/Kg | 2 | 0.0200 |
| Xylene | | u | <0.0400 | mg/Kg | 2 | 0.0200 |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount |
| Trifluorotoluene (TFT) | | | 3.87 | mg/Kg | 2 | 4.00 |
| 4-Bromofluorobenzene (4-BFB) | | | 4.09 | mg/Kg | 2 | 4.00 |
| | | | | | | Percent Recovery |
| | | | | | | Recovery Limits |
| | | | | | | 70 - 130 |
| | | | | | | 70 - 130 |

Sample: 400920 - DP-Cell 3 (2-3)

| | | | | | |
|-------------|----------------------|---------------------|--------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | SM 4500-Cl B | Prep Method: | N/A |
| Analysis: | Chloride (Titration) | Date Analyzed: | 2015-08-10 | Analyzed By: | AM |
| QC Batch: | 123888 | Sample Preparation: | 2015-08-10 | Prepared By: | AM |
| Prep Batch: | 104752 | | | | |

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sample 400920 continued . . .

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 400920 - DP-Cell 3 (2-3)

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 130414
Prep Batch: 110490

Analytical Method: S 8015 D
Date Analyzed: 2015-08-05
Sample Preparation: 2015-08-05

Prep Method: N/A
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL | |
|-----------|------|------|--------|-------|--------------|------------------|-----------------|
| DRO | Qr,U | 1 | <50.0 | mg/Kg | 1 | 50.0 | |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery | Recovery Limits |

Sample: 400921 - Cell 3 Comp

Laboratory: Midland
Analysis: BTEX
QC Batch: 123800
Prep Batch: 104681

Analytical Method: S 8021B
Date Analyzed: 2015-08-07
Sample Preparation: 2015-08-06

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL | | |
|------------------------------|------|------|--------|--------|----------|--------------|------------------|-----------------|
| Benzene | 3 | u | 1 | <0.100 | mg/Kg | 5 | 0.0200 | |
| Toluene | u | 1 | <0.100 | mg/Kg | 5 | 0.0200 | | |
| Ethylbenzene | u | 1 | <0.100 | mg/Kg | 5 | 0.0200 | | |
| Xylene | u | 1 | <0.100 | mg/Kg | 5 | 0.0200 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotoluene (TFT) | | | 9.21 | mg/Kg | 5 | 10.0 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 9.38 | mg/Kg | 5 | 10.0 | 94 | 70 - 130 |

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Sample: 400921 - Cell 3 Comp

| | | | | | |
|-------------|----------------------|---------------------|--------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | SM 4500-Cl B | Prep Method: | N/A |
| Analysis: | Chloride (Titration) | Date Analyzed: | 2015-08-10 | Analyzed By: | AM |
| QC Batch: | 123888 | Sample Preparation: | 2015-08-10 | Prepared By: | AM |
| Prep Batch: | 104752 | | | | |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|----------------|------|--------|-------|----------|------|
| Chloride | Q ₆ | | 796 | mg/Kg | 5 | 4.00 |

Sample: 400921 - Cell 3 Comp

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | S 8015 D | Prep Method: | N/A |
| Analysis: | TPH DRO | Date Analyzed: | 2015-08-05 | Analyzed By: | AK |
| QC Batch: | 130414 | Sample Preparation: | 2015-08-05 | Prepared By: | AK |
| Prep Batch: | 110490 | | | | |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|----------------|------|--------|-------|----------|------|
| DRO | Q _r | 1 | 51.9 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | Q _{ar} | Q _{ar} | 91.8 | mg/Kg | 1 | 50.0 | 184 | 70 - 130 |

Sample: 400922 - DP-Cell 4 (2-3)

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | Analytical Method: | S 8021B | Prep Method: | S 5035 |
| Analysis: | BTEX | Date Analyzed: | 2015-08-07 | Analyzed By: | AK |
| QC Batch: | 123800 | Sample Preparation: | 2015-08-06 | Prepared By: | AK |
| Prep Batch: | 104681 | | | | |

| Parameter | Flag | Cert | Result | Units | Dilution | RL | |
|--------------|------|------|--------|---------|----------|----|--------|
| Benzene | 4 | U | 1 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Toluene | | U | 1 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Ethylbenzene | | U | 1 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Xylene | | U | 1 | <0.0400 | mg/Kg | 2 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 3.82 | mg/Kg | 2 | 4.00 | 96 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 4.03 | mg/Kg | 2 | 4.00 | 101 | 70 - 130 |

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Sample: 400922 - DP-Cell 4 (2-3)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 124084 Date Analyzed: 2015-08-17 Analyzed By: AK
Prep Batch: 104919 Sample Preparation: 2015-08-17 Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| Chloride | u | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 400922 - DP-Cell 4 (2-3)

Laboratory: Midland
Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 130414 Date Analyzed: 2015-08-05 Analyzed By: AK
Prep Batch: 110490 Sample Preparation: 2015-08-05 Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| DRO | qr,u | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | qr | qr | 99.4 | mg/Kg | 1 | 50.0 | 199 | 70 - 130 |

Sample: 400923 - Cell 4 Comp

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 123800 Date Analyzed: 2015-08-07 Analyzed By: AK
Prep Batch: 104681 Sample Preparation: 2015-08-06 Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL | |
|--------------|------|------|---------|---------|----------|--------|--------|
| Benzene | 5 | u | 1 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Toluene | u | 1 | <0.0400 | mg/Kg | 2 | 0.0200 | |
| Ethylbenzene | u | 1 | <0.0400 | mg/Kg | 2 | 0.0200 | |
| Xylene | u | 1 | <0.0400 | mg/Kg | 2 | 0.0200 | |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 3.53 | mg/Kg | 2 | 4.00 | 88 | 70 - 130 |

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sample continued ...

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| 4-Bromofluorobenzene (4-BFB) | | | 3.82 | mg/Kg | 2 | 4.00 | 96 | 70 - 130 |

Sample: 400923 - Cell 4 Comp

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 124084
Prep Batch: 104919

Analytical Method: SM 4500-Cl B
Date Analyzed: 2015-08-17
Sample Preparation: 2015-08-17

Prep Method: N/A
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| Chloride | v | | <20.0 | mg/Kg | 5 | 4.00 |

Sample: 400923 - Cell 4 Comp

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 130414
Prep Batch: 110490

Analytical Method: S 8015 D
Date Analyzed: 2015-08-05
Sample Preparation: 2015-08-05

Prep Method: N/A
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|--------------------|------|--------|-------|----------|------|
| DRO | Q _r , U | 1 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|-----------------|-----------------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | Q _{ar} | Q _{ar} | 80.0 | mg/Kg | 1 | 50.0 | 160 | 70 - 130 |

Sample: 400924 - DP-Cell 5 (2-3)

Laboratory: Midland
Analysis: BTEX
QC Batch: 123800
Prep Batch: 104681

Analytical Method: S 8021B
Date Analyzed: 2015-08-07
Sample Preparation: 2015-08-06

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|---------|-------|----------|--------|
| Benzene | v | 1 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Toluene | | 1 | 0.0802 | mg/Kg | 2 | 0.0200 |

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sample 400924 continued ...

| Parameter | Flag | Cert | Result | Units | Dilution | RL | |
|------------------------------|------|------|---------|-------|----------|--------------|------------------|
| Ethylbenzene | | 1 | <0.0400 | mg/Kg | 2 | 0.0200 | |
| Xylene | | 1 | 0.207 | mg/Kg | 2 | 0.0200 | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery |
| Trifluorotoluene (TFT) | | | 3.59 | mg/Kg | 2 | 4.00 | 90 |
| 4-Bromofluorobenzene (4-BFB) | | | 4.76 | mg/Kg | 2 | 4.00 | 119 |

Sample: 400924 - DP-Cell 5 (2-3)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 124119 Date Analyzed: 2015-08-17 Analyzed By: AM
Prep Batch: 104945 Sample Preparation: 2015-08-17 Prepared By: AM

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| Chloride | | | 379 | mg/Kg | 5 | 4.00 |

Sample: 400924 - DP-Cell 5 (2-3)

Laboratory: Midland
Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 130414 Date Analyzed: 2015-08-05 Analyzed By: AK
Prep Batch: 110490 Sample Preparation: 2015-08-05 Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL | |
|-------------|------|------|--------|-------|--------------|------------------|-----------------|
| DRO | Qsr | 1 | 641 | mg/Kg | 5 | 50.0 | |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery | Recovery Limits |
| n-Tricosane | Qsr | Qsr | 115 | mg/Kg | 5 | 50.0 | 230 |

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Sample: 400925 - Cell 5 Comp

Laboratory: Midland
Analysis: BTEX
QC Batch: 123800
Prep Batch: 104681

Analytical Method: S 8021B
Date Analyzed: 2015-08-07
Sample Preparation: 2015-08-06

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|---------|-------|----------|--------|
| Benzene | 6 | U | <0.0400 | mg/Kg | 2 | 0.0200 |
| Toluene | | 1 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Ethylbenzene | | 1 | <0.0400 | mg/Kg | 2 | 0.0200 |
| Xylene | | 1 | <0.0400 | mg/Kg | 2 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 3.72 | mg/Kg | 2 | 4.00 | 93 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 4.01 | mg/Kg | 2 | 4.00 | 100 | 70 - 130 |

Sample: 400925 - Cell 5 Comp

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 124119
Prep Batch: 104945

Analytical Method: SM 4500-Cl B
Date Analyzed: 2015-08-17
Sample Preparation: 2015-08-17

Prep Method: N/A
Analyzed By: AM
Prepared By: AM

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| Chloride | | | 3790 | mg/Kg | 5 | 4.00 |

Sample: 400925 - Cell 5 Comp

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 130414
Prep Batch: 110490

Analytical Method: S 8015 D
Date Analyzed: 2015-08-05
Sample Preparation: 2015-08-05

Prep Method: N/A
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL | | |
|-------------|-------|------|--------|-------|--------------|------------------|-----------------|----------|
| DRO | Q,r,U | 1 | <50.0 | mg/Kg | 1 | 50.0 | | |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery | Recovery Limits | |
| n-Tricosane | Q,r | Q,r | 88.4 | mg/Kg | 1 | 50.0 | 177 | 70 - 130 |

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Method Blanks

Method Blank (1) QC Batch: 123800

QC Batch: 123800 Date Analyzed: 2015-08-07 Analyzed By: AK
Prep Batch: 104681 QC Preparation: 2015-08-06 Prepared By: AK

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|------------|-------|------|
| Benzene | 1 | | <0.00533 | mg/Kg | 0.02 |
| Toluene | 1 | | <0.00645 | mg/Kg | 0.02 |
| Ethylbenzene | 1 | | <0.0116 | mg/Kg | 0.02 |
| Xylene | 1 | | <0.00874 | mg/Kg | 0.02 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 2.01 | mg/Kg | 1 | 2.00 | 100 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.12 | mg/Kg | 1 | 2.00 | 106 | 70 - 130 |

Method Blank (1) QC Batch: 123888

QC Batch: 123888 Date Analyzed: 2015-08-10 Analyzed By: AM
Prep Batch: 104752 QC Preparation: 2015-08-10 Prepared By: AM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|------------|-------|----|
| Chloride | | | <3.85 | mg/Kg | 4 |

Method Blank (1) QC Batch: 124084

QC Batch: 124084 Date Analyzed: 2015-08-17 Analyzed By: AK
Prep Batch: 104919 QC Preparation: 2015-08-17 Prepared By: AK

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|------------|-------|----|
| Chloride | | | <3.85 | mg/Kg | 4 |

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Method Blank (1) QC Batch: 124119

QC Batch: 124119
Prep Batch: 104945

Date Analyzed: 2015-08-17
QC Preparation: 2015-08-17

Analyzed By: AM
Prepared By: AM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|------------|-------|----|
| Chloride | | | <3.85 | mg/Kg | 4 |

Method Blank (1) QC Batch: 130414

QC Batch: 130414
Prep Batch: 110490

Date Analyzed: 2015-08-05
QC Preparation: 2015-08-05

Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-------------|------|------|------------|--------------|------------------|
| DRO | | 1 | <7.41 | mg/Kg | 50 |
| Surrogate | Flag | Cert | Result | Units | Dilution |
| n-Tricosane | | | 57.4 | mg/Kg | 1 |
| | | | | Spike Amount | Percent Recovery |
| | | | | 50.0 | 115 |
| | | | | | Recovery Limits |
| | | | | | 70 - 130 |

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 123800
Prep Batch: 104681

Date Analyzed: 2015-08-07
QC Preparation: 2015-08-06

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Benzene | | 1 | 1.90 | mg/Kg | 1 | 2.00 | <0.00533 | 95 | 70 - 130 |
| Toluene | | 1 | 1.89 | mg/Kg | 1 | 2.00 | <0.00645 | 94 | 70 - 130 |
| Ethylbenzene | | 1 | 1.81 | mg/Kg | 1 | 2.00 | <0.0116 | 90 | 70 - 130 |
| Xylene | | 1 | 5.59 | mg/Kg | 1 | 6.00 | <0.00874 | 93 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | | 1 | 1.92 | mg/Kg | 1 | 2.00 | <0.00533 | 96 | 70 - 130 | 1 | 20 |
| Toluene | | 1 | 1.95 | mg/Kg | 1 | 2.00 | <0.00645 | 98 | 70 - 130 | 3 | 20 |
| Ethylbenzene | | 1 | 1.83 | mg/Kg | 1 | 2.00 | <0.0116 | 92 | 70 - 130 | 1 | 20 |
| Xylene | | 1 | 5.66 | mg/Kg | 1 | 6.00 | <0.00874 | 94 | 70 - 130 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | F | C | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---|---|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | | | 1.88 | 1.95 | mg/Kg | 1 | 2.00 | 94 | 98 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.07 | 2.14 | mg/Kg | 1 | 2.00 | 104 | 107 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 123888
Prep Batch: 104752

Date Analyzed: 2015-08-10
QC Preparation: 2015-08-10

Analyzed By: AM
Prepared By: AM

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Chloride | | | 2290 | mg/Kg | 5 | 2500 | <19.2 | 92 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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control spikes continued ...

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|----------------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD | RPD Limit |
| Chloride | | | 2190 | mg/Kg | 5 | 2500 | <19.2 | 88 | 85 - 115 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 124084
Prep Batch: 104919

Date Analyzed: 2015-08-17
QC Preparation: 2015-08-17

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2340 | mg/Kg | 5 | 2500 | <19.2 | 94 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|----------------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
| Chloride | | | 2440 | mg/Kg | 5 | 2500 | <19.2 | 98 | 85 - 115 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 124119
Prep Batch: 104945

Date Analyzed: 2015-08-17
QC Preparation: 2015-08-17

Analyzed By: AM
Prepared By: AM

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | | 2180 | mg/Kg | 5 | 2500 | <19.2 | 87 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Matrix Rec. | Rec. Limit | RPD | RPD Limit |
|-------|----------|------|----------------|-------|------|-----------------|------------------|----------------|---------------|-----|--------------|
| | Chloride | 2180 | mg/Kg | 5 | 2500 | <19.2 | 87 | 85 - 115 | 0 | 20 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Laboratory Control Spike (LCS-1)

QC Batch: 130414
Prep Batch: 110490

Date Analyzed: 2015-08-05
QC Preparation: 2015-08-05

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|-------|---|-----|------------|-------|------|--------------|---------------|-----------|------------|
| DRO | 1 | 204 | mg/Kg | 1 | 250 | <7.41 | 82 | 70 - 130 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. RPD | RPD Limit | | | |
|-------|---|-----------------|-----------------|-------|------|--------------|---------------|-----------|----------|-----------|----------|----|----|
| DRO | 7 | Q _{sp} | Q _{sp} | 1 | 172 | mg/Kg | 1 | 250 | <7.41 | 69 | 70 - 130 | 17 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit | | |
|-------------|-----------------|-----------------|-------|------|--------------|----------|-----------|------------|-----|----------|
| n-Tricosane | Q _{sp} | Q _{sp} | 73.4 | 63.4 | mg/Kg | 1 | 50.0 | 147 | 127 | 70 - 130 |

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Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 401175

QC Batch: 123800 Date Analyzed: 2015-08-07 Analyzed By: AK
Prep Batch: 104681 QC Preparation: 2015-08-06 Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | | 1 | 1.47 | mg/Kg | 1 | 2.00 | <0.00533 | 74 | 70 - 130 |
| Toluene | | 1 | 1.60 | mg/Kg | 1 | 2.00 | 0.0221 | 79 | 70 - 130 |
| Ethylbenzene | | 1 | 1.89 | mg/Kg | 1 | 2.00 | 0.0297 | 93 | 70 - 130 |
| Xylene | | 1 | 5.42 | mg/Kg | 1 | 6.00 | 0.0646 | 89 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | | 1 | 1.51 | mg/Kg | 1 | 2.00 | <0.00533 | 76 | 70 - 130 | 3 | 20 |
| Toluene | | 1 | 1.62 | mg/Kg | 1 | 2.00 | 0.0221 | 80 | 70 - 130 | 1 | 20 |
| Ethylbenzene | | 1 | 1.70 | mg/Kg | 1 | 2.00 | 0.0297 | 84 | 70 - 130 | 11 | 20 |
| Xylene | | 1 | 5.17 | mg/Kg | 1 | 6.00 | 0.0646 | 85 | 70 - 130 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT) | 1.79 | 1.90 | mg/Kg | 1 | 2 | 90 | 95 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 2.26 | 2.11 | mg/Kg | 1 | 2 | 113 | 106 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 400921

QC Batch: 123888 Date Analyzed: 2015-08-10 Analyzed By: AM
Prep Batch: 104752 QC Preparation: 2015-08-10 Prepared By: AM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Chloride | | | 2890 | mg/Kg | 5 | 2500 | <19.2 | 116 | 78.9 - 121 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

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matrix spikes continued ...

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD | RPD Limit |
|----------|----------------|----------------|---------------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
| Chloride | Q _b | Q _b | 3080 | mg/Kg | 5 | 2500 | <19.2 | 123 | 78.9 - 121 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 401077

QC Batch: 124084 Date Analyzed: 2015-08-17 Analyzed By: AK
Prep Batch: 104919 QC Preparation: 2015-08-17 Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|--------------|---------------|
| Chloride | | | 2540 | mg/Kg | 5 | 2500 | <19.2 | 102 | 78.9 - 121 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
| Chloride | | | 2440 | mg/Kg | 5 | 2500 | <19.2 | 98 | 78.9 - 121 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 402017

QC Batch: 124119 Date Analyzed: 2015-08-17 Analyzed By: AM
Prep Batch: 104945 QC Preparation: 2015-08-17 Prepared By: AM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|--------------|---------------|
| Chloride | | | 2460 | mg/Kg | 5 | 2500 | 95 | 95 | 78.9 - 121 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
| Chloride | | | 2560 | mg/Kg | 5 | 2500 | 95 | 99 | 78.9 - 121 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Matrix Spike (xMS-1) Spiked Sample: 400914

QC Batch: 130414
Prep Batch: 110490

Date Analyzed: 2015-08-05
QC Preparation: 2015-08-05

Analyzed By: AK
Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| DRO | | 1 | 270 | mg/Kg | 1 | 250 | 14.5 | 102 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit | |
|-------|----|----|------------|-------|-------|--------------|---------------|------|------------|----------|-----------|----|
| DRO | Qr | Qr | 1 | 218 | mg/Kg | 1 | 250 | 14.5 | 81 | 70 - 130 | 21 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. | Rec. Limit | |
|-------------|-----------|------------|-------|------|--------------|---------|----------|------|------------|----------|
| n-Tricosane | Qar | Qar | 81.7 | 65.0 | mg/Kg | 1 | 50 | 163 | 130 | 70 - 130 |

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Calibration Standards

Standard (CCV-2)

QC Batch: 123800

Date Analyzed: 2015-08-07

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | 1 | | mg/kg | 0.100 | 0.0934 | 93 | 80 - 120 | 2015-08-07 |
| Toluene | 1 | | mg/kg | 0.100 | 0.0902 | 90 | 80 - 120 | 2015-08-07 |
| Ethylbenzene | 1 | | mg/kg | 0.100 | 0.0860 | 86 | 80 - 120 | 2015-08-07 |
| Xylene | 1 | | mg/kg | 0.300 | 0.261 | 87 | 80 - 120 | 2015-08-07 |

Standard (CCV-3)

QC Batch: 123800

Date Analyzed: 2015-08-07

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | 1 | | mg/kg | 0.100 | 0.0959 | 96 | 80 - 120 | 2015-08-07 |
| Toluene | 1 | | mg/kg | 0.100 | 0.0914 | 91 | 80 - 120 | 2015-08-07 |
| Ethylbenzene | 1 | | mg/kg | 0.100 | 0.0861 | 86 | 80 - 120 | 2015-08-07 |
| Xylene | 1 | | mg/kg | 0.300 | 0.265 | 88 | 80 - 120 | 2015-08-07 |

Standard (ICV-1)

QC Batch: 123888

Date Analyzed: 2015-08-10

Analyzed By: AM

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | | mg/Kg | 100 | 100 | 100 | 85 - 115 | 2015-08-10 |

Standard (CCV-1)

QC Batch: 123888

Date Analyzed: 2015-08-10

Analyzed By: AM

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| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date |
|----------|------|------|-------|------------|-------------|------------------|-----------------|------------|
| | | | | True Conc. | Found Conc. | Percent Recovery | Recovery Limits | |
| Chloride | | | mg/Kg | 100 | 100 | 100 | 85 - 115 | 2015-08-10 |

Standard (ICV-1)

QC Batch: 124084

Date Analyzed: 2015-08-17

Analyzed By: AK

| Param | Flag | Cert | Units | ICVs | ICVs | ICVs | Percent | Date |
|----------|------|------|-------|------------|-------------|------------------|-----------------|------------|
| | | | | True Conc. | Found Conc. | Percent Recovery | Recovery Limits | |
| Chloride | | | mg/Kg | 100 | 100 | 100 | 85 - 115 | 2015-08-17 |

Standard (CCV-1)

QC Batch: 124084

Date Analyzed: 2015-08-17

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date |
|----------|------|------|-------|------------|-------------|------------------|-----------------|------------|
| | | | | True Conc. | Found Conc. | Percent Recovery | Recovery Limits | |
| Chloride | | | mg/Kg | 100 | 100 | 100 | 85 - 115 | 2015-08-17 |

Standard (ICV-1)

QC Batch: 124119

Date Analyzed: 2015-08-17

Analyzed By: AM

| Param | Flag | Cert | Units | ICVs | ICVs | ICVs | Percent | Date |
|----------|------|------|-------|------------|-------------|------------------|-----------------|------------|
| | | | | True Conc. | Found Conc. | Percent Recovery | Recovery Limits | Analyzed |
| Chloride | | | mg/Kg | 100 | 94.0 | 94 | 85 - 115 | 2015-08-17 |

Standard (CCV-1)

QC Batch: 124119

Date Analyzed: 2015-08-17

Analyzed By: AM

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| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date |
|----------|------|------|-------|------------|-------------|------------------|-----------------|------------|
| | | | | True Conc. | Found Conc. | Percent Recovery | Recovery Limits | Analyzed |
| Chloride | | | mg/Kg | 100 | 106 | 106 | 85 - 115 | 2015-08-17 |

Standard (CCV-1)

QC Batch: 130414

Date Analyzed: 2015-08-05

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 212 | 85 | 80 - 120 | 2015-08-05 |

Standard (CCV-2)

QC Batch: 130414

Date Analyzed: 2015-08-05

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | | 1 | mg/Kg | 250 | 269 | 108 | 80 - 120 | 2015-08-05 |

Standard (CCV-3)

QC Batch: 130414

Date Analyzed: 2015-08-05

Analyzed By: AK

| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date |
|-------|------|------|-------|------|-------|---------|----------|------------|
| | | | | True | Found | Percent | Recovery | Limits |
| DRO | 1 | | mg/Kg | 250 | 217 | 87 | 80 - 120 | 2015-08-05 |

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | NELAP | T104704392-14-8 | Midland |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| MI1 | Split peak or shoulder peak |
| MI2 | Instrument software did not integrate |
| MI3 | Instrument software misidentified the peak |
| MI4 | Instrument software integrated improperly |
| MI5 | Baseline correction |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Result Comments

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-
- 1 Dilution due to surfactants.
 - 2 Dilution due to surfactants.
 - 3 Dilution due to surfactants.
 - 4 Dilution due to surfactants.
 - 5 Dilution due to surfactants.
 - 6 Dilution due to surfactants.
 - 7 RPD within control limits.

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

WO #: 15080501

CHAIN-OF-CUSTODY

Arson & Associates, Inc. Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

TRRP report?

TIME ZONE:
Time zone/State:
N/A

Field
Sample I.D.

| | | | | | | | | | | | | |
|-----------------|----|---------|------|---|---|---|---|---|---|---|---|--------|
| DP Cell 1 (2-3) | 01 | 8/14/15 | 2:00 | S | 1 | X | ✓ | ✗ | | ✓ | | 400917 |
| Cell 1 COMP | 02 | | 2:05 | | | | ✓ | ✓ | ✗ | | ✓ | 400918 |
| DP Cell 2 (2-3) | 03 | | 2:15 | | | | ✓ | ✓ | ✗ | | ✓ | 400919 |
| DP Cell 3 (2-3) | 04 | | 2:30 | | | | ✓ | ✓ | ✗ | | ✓ | 400920 |
| Cell 3 COMP | 05 | | 2:35 | | | | ✓ | ✓ | ✗ | | ✓ | 400921 |
| DPCell 4 (2-3) | 06 | | 2:45 | | | | ✓ | ✓ | ✗ | | ✓ | 400922 |
| Cell 4 COMP | 07 | | 2:50 | | | | ✓ | ✓ | ✗ | | ✓ | 400923 |
| DP Cell 5 (2-3) | 08 | | 3:00 | | | | ✓ | ✓ | ✗ | | ✓ | 400924 |
| Cell 5 COMP | 09 | | 3:05 | ↓ | ↓ | ↓ | ✓ | ✓ | ✗ | ↓ | ↓ | 400925 |

TOTAL

RELINQUISHED BY: (Signature)

DATE/TIM

RECEIVED BY: (Signature)

TURN AROUND TIME

LABORATORY USE ONLY

REINFORCED BY: (Signature)

DATE/TIM

RECEIVED BY: (Signature)

RECEIVING TEMP: 5.6

Digitized by srujanika@gmail.com

第二部分

REF ID: F87010

2 DAY

CUSTODY SEALS - BROKEN INTACT NOT USED

HAND DELIVERED

HAND DELIVERED

Cracker barrel lot 9-11-15 fl.
USED
Tov. Envoy 8-20-15 fl.

3 | B6

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 806-794-1296 FAX 806-794-1296
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Sarah Shissler
Larson and Associates, Inc.

Report Date: June 2, 2016

P. O. Box 50685
Midland, TX, 79710

Work Order: 15101304



Project Name: R360 Artesia Landfarm
Project Number: 15-0121-01

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 406087 | DP-1 | soil | 2015-10-12 | 12:15 | 2015-10-13 |
| 406088 | DP-2 | soil | 2015-10-12 | 12:30 | 2015-10-13 |
| 406089 | DP-3 | soil | 2015-10-12 | 12:45 | 2015-10-13 |
| 406090 | DP-4 | soil | 2015-10-12 | 13:00 | 2015-10-13 |
| 406091 | DP-5 | soil | 2015-10-12 | 13:15 | 2015-10-13 |
| 406092 | Comp-1 | soil | 2015-10-12 | 13:30 | 2015-10-13 |
| 406093 | Comp-3 | soil | 2015-10-12 | 13:45 | 2015-10-13 |
| 406094 | Comp-4 | soil | 2015-10-12 | 14:00 | 2015-10-13 |
| 406095 | Comp-5 | soil | 2015-10-12 | 14:15 | 2015-10-13 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 40 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.

Blair Leftwich

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Johnny Grindstaff, Operations Manager

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Case Narrative

Samples for project R360 Artesia Landfarm were received by TraceAnalysis, Inc. on 2015-10-13 and assigned to work order 15101304. Samples for work order 15101304 were received intact at a temperature of 1.3 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|----------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 106233 | 2015-10-14 at 08:29 | 125591 | 2015-10-15 at 09:02 |
| Chloride (IC) | E 300.0 | 106258 | 2015-10-15 at 11:00 | 125621 | 2015-10-15 at 12:01 |
| Chloride (IC) | E 300.0 | 106322 | 2015-10-19 at 12:30 | 125692 | 2015-10-19 at 13:01 |
| TPH 418.1 | E 418.1 | 106421 | 2015-10-21 at 12:00 | 125797 | 2015-10-21 at 12:00 |
| TPH DRO | S 8015 D | 106226 | 2015-10-14 at 07:16 | 125580 | 2015-10-14 at 15:30 |
| TPH DRO | S 8015 D | 106228 | 2015-10-14 at 16:00 | 125601 | 2015-10-15 at 12:35 |
| TPH DRO | S 8015 D | 106256 | 2015-10-15 at 07:18 | 125613 | 2015-10-15 at 16:00 |
| TPH GRO | S 8015 D | 106233 | 2015-10-14 at 08:29 | 125587 | 2015-10-15 at 08:30 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15101304 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

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Analytical Report

Sample: 406087 - DP-1

| | | | | | | | |
|-------------|---------|-------------|--------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | Analysis: | BTEX | Analytical Method: | S 8021B | Prep Method: | S 5035 |
| QC Batch: | 125591 | Prep Batch: | 106233 | Date Analyzed: | 2015-10-15 | Analyzed By: | AK |
| | | | | Sample Preparation: | 2015-10-14 | Prepared By: | AK |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|--------|
| Benzene | U | s | <0.200 | mg/Kg | 10 | 0.0200 |
| Toluene | U | s | <0.200 | mg/Kg | 10 | 0.0200 |
| Ethylbenzene | | s | 0.366 | mg/Kg | 10 | 0.0200 |
| Xylene | | s | 2.17 | mg/Kg | 10 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 18.8 | mg/Kg | 10 | 20.0 | 94 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 19.3 | mg/Kg | 10 | 20.0 | 96 | 70 - 130 |

Sample: 406087 - DP-1

| | | | | | | | |
|-------------|---------|-------------|---------------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analysis: | Chloride (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
| QC Batch: | 125621 | Prep Batch: | 106258 | Date Analyzed: | 2015-10-15 | Analyzed By: | RL |
| | | | | Sample Preparation: | | Prepared By: | RL |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|-------|------------|-------|----------|------|
| Chloride | | 1,2,4 | 231 | mg/Kg | 5 | 25.0 |

Sample: 406087 - DP-1

| | | | | | | | |
|-------------|---------|-------------|-----------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analysis: | TPH 418.1 | Analytical Method: | E 418.1 | Prep Method: | N/A |
| QC Batch: | 125797 | Prep Batch: | 106421 | Date Analyzed: | 2015-10-21 | Analyzed By: | ZY |
| | | | | Sample Preparation: | 2015-10-21 | Prepared By: | ZY |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|-------------|-------|----------|------|
| TRPHC | | | 3130 | mg/Kg | 100 | 10.0 |

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Sample: 406087 - DP-1

Laboratory: Midland

Analysis: TPH DRO

QC Batch: 125580

Prep Batch: 106226

Analytical Method: S 8015 D

Date Analyzed: 2015-10-14

Sample Preparation: 2015-10-14

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | Result | RL | | Dilution | RL |
|-------------|------|------|--------|-------|----------|--------------|------------------|
| | | | | Units | mg/Kg | | |
| DRO | Qr | 3 | 3450 | | | 20 | 50.0 |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery |
| n-Tricosane | Qsr | Qsr | 275 | mg/Kg | 20 | 50.0 | 550 |
| | | | | | | | 70 - 130 |

Sample: 406087 - DP-1

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 125587

Prep Batch: 106233

Analytical Method: S 8015 D

Date Analyzed: 2015-10-15

Sample Preparation: 2015-10-14

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | Result | RL | | Dilution | RL |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|
| | | | | Units | mg/Kg | | |
| GRO | | 3 | 49.1 | | | 10 | 4.00 |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery |
| Trifluorotoluene (TFT) | | | 18.0 | mg/Kg | 10 | 20.0 | 90 |
| 4-Bromofluorobenzene (4-BFB) | | | 20.0 | mg/Kg | 10 | 20.0 | 100 |
| | | | | | | | 70 - 130 |

Sample: 406088 - DP-2

Laboratory: Midland

Analysis: BTEX

QC Batch: 125591

Prep Batch: 106233

Analytical Method: S 8021B

Date Analyzed: 2015-10-15

Sample Preparation: 2015-10-14

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | Result | RL | | Dilution | RL |
|--------------|------|------|---------|-------|-------|----------|--------|
| | | | | Units | mg/Kg | | |
| Benzene | U | 3 | <0.0200 | | | 1 | 0.0200 |
| Toluene | U | 3 | <0.0200 | | | 1 | 0.0200 |
| Ethylbenzene | U | 3 | <0.0200 | | | 1 | 0.0200 |
| Xylene | U | 3 | <0.0200 | | | 1 | 0.0200 |

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| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.83 | mg/Kg | 1 | 2.00 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.97 | mg/Kg | 1 | 2.00 | 98 | 70 - 130 |

Sample: 406088 - DP-2

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 125621
Prep Batch: 106258

Analytical Method: E 300.0
Date Analyzed: 2015-10-15
Sample Preparation:

Prep Method: N/A
Analyzed By: RL
Prepared By: RL

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|-------|--------|-------|----------|------|
| Chloride | | 1,2,4 | <25.0 | mg/Kg | 1 | 25.0 |

Sample: 406088 - DP-2

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 125797
Prep Batch: 106421

Analytical Method: E 418.1
Date Analyzed: 2015-10-21
Sample Preparation: 2015-10-21

Prep Method: N/A
Analyzed By: ZY
Prepared By: ZY

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| TRPHC | | | 21.8 | mg/Kg | 1 | 10.0 |

Sample: 406088 - DP-2

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 125580
Prep Batch: 106226

Analytical Method: S 8015 D
Date Analyzed: 2015-10-14
Sample Preparation: 2015-10-14

Prep Method: N/A
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| DRO | Qr | 3 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | | 55.0 | mg/Kg | 1 | 50.0 | 110 | 70 - 130 |

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Sample: 406088 - DP-2

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | | | | |
| Analysis: | TPH GRO | Analytical Method: | S 8015 D | Prep Method: | S 5035 |
| QC Batch: | 125597 | Date Analyzed: | 2015-10-15 | Analyzed By: | AK |
| Prep Batch: | 106233 | Sample Preparation: | 2015-10-14 | Prepared By: | AK |

| Parameter | Flag | Cert | Result | RL | | Dilution | RL |
|------------------------------|-------|------|--------|-------|----------|--------------|------------------|
| | | | | Units | mg/Kg | | |
| GRO | qs, U | s | <4.00 | | | 1 | 4.00 |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery |
| Trifluorotoluene (TFT) | | | 1.78 | mg/Kg | 1 | 2.00 | 89 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.83 | mg/Kg | 1 | 2.00 | 92 |

Sample: 406089 - DP-3

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | | | | |
| Analysis: | BTEX | Analytical Method: | S 8021B | Prep Method: | S 5035 |
| QC Batch: | 125591 | Date Analyzed: | 2015-10-15 | Analyzed By: | AK |
| Prep Batch: | 106233 | Sample Preparation: | 2015-10-14 | Prepared By: | AK |

| Parameter | Flag | Cert | Result | RL | | Dilution | RL |
|------------------------------|------|------|---------|-------|----------|--------------|------------------|
| | | | | Units | mg/Kg | | |
| Benzene | U | s | <0.0200 | | | 1 | 0.0200 |
| Toluene | U | s | <0.0200 | | | 1 | 0.0200 |
| Ethylbenzene | U | s | <0.0200 | | | 1 | 0.0200 |
| Xylene | U | s | <0.0200 | | | 1 | 0.0200 |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery |
| Trifluorotoluene (TFT) | | | 1.89 | mg/Kg | 1 | 2.00 | 94 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.89 | mg/Kg | 1 | 2.00 | 94 |

Sample: 406089 - DP-3

| | | | | | |
|-------------|---------------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | | | | |
| Analysis: | Chloride (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
| QC Batch: | 125621 | Date Analyzed: | 2015-10-15 | Analyzed By: | RL |
| Prep Batch: | 106258 | Sample Preparation: | | Prepared By: | RL |

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sample 406089 continued ...

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| Parameter | Flag | Cert | Result | Units | Dilution | RL |
| Chloride | | | 33.7 | mg/Kg | 1 | 25.0 |
| | | | 1,2,4 | | | |

Sample: 406089 - DP-3

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 125797
Prep Batch: 106421

Analytical Method: E 418.1
Date Analyzed: 2015-10-21
Sample Preparation: 2015-10-21

Prep Method: N/A
Analyzed By: ZY
Prepared By: ZY

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| TRPHC | | | 16.0 | mg/Kg | 1 | 10.0 |

Sample: 406089 - DP-3

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 125580
Prep Batch: 106226

Analytical Method: S 8015 D
Date Analyzed: 2015-10-14
Sample Preparation: 2015-10-14

Prep Method: N/A
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL | | |
|-------------|------|------|--------|-------|--------------|------------------|-----------------|----------|
| DRO | qr | 3 | <50.0 | mg/Kg | 1 | 50.0 | | |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery | Recovery Limits | |
| n-Tricosane | | | 59.8 | mg/Kg | 1 | 50.0 | 120 | 70 - 130 |

Sample: 406089 - DP-3

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 125587
Prep Batch: 106233

Analytical Method: S 8015 D
Date Analyzed: 2015-10-15
Sample Preparation: 2015-10-14

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

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sample 406089 continued ...

| Parameter | Flag | Cert | Result | Units | Dilution | RL | | |
|------------------------------|------|------|--------|-------|--------------|------------------|-----------------|----------|
| GRO | u | s | <4.00 | mg/Kg | 1 | 4.00 | | |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery | Recovery Limits | |
| Trifluorotoluene (TFT) | | | 1.81 | mg/Kg | 1 | 2.00 | 90 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.80 | mg/Kg | 1 | 2.00 | 90 | 70 - 130 |

Sample: 406090 - DP-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 125591
Prep Batch: 106233

Analytical Method: S 8021B
Date Analyzed: 2015-10-15
Sample Preparation: 2015-10-14

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | | Dilution | RL | | |
|------------------------------|------|------|---------|-------|----------|--------------|------------------|-----------------|
| Benzene | u | s | <0.0200 | | mg/Kg | 1 | 0.0200 | |
| Toluene | u | s | <0.0200 | mg/Kg | 1 | 0.0200 | | |
| Ethylbenzene | u | s | <0.0200 | mg/Kg | 1 | 0.0200 | | |
| Xylene | u | s | <0.0200 | mg/Kg | 1 | 0.0200 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotoluene (TFT) | | | 1.82 | mg/Kg | 1 | 2.00 | 91 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.86 | mg/Kg | 1 | 2.00 | 93 | 70 - 130 |

Sample: 406090 - DP-4

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 125621
Prep Batch: 106258

Analytical Method: E 300.0
Date Analyzed: 2015-10-15
Sample Preparation:

Prep Method: N/A
Analyzed By: RL
Prepared By: RL

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|-------|--------|-------|----------|------|
| Chloride | | 1,2,4 | 173 | mg/Kg | 5 | 25.0 |

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Sample: 406090 - DP-4

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 125797
Prep Batch: 106421

Analytical Method: E 418.1
Date Analyzed: 2015-10-21
Sample Preparation: 2015-10-21

Prep Method: N/A
Analyzed By: ZY
Prepared By: ZY

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| TRPHC | u | | <10.0 | mg/Kg | 1 | 10.0 |

Sample: 406090 - DP-4

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 125580
Prep Batch: 106226

Analytical Method: S 8015 D
Date Analyzed: 2015-10-14
Sample Preparation: 2015-10-14

Prep Method: N/A
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| DRO | qr,u | s | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | | 55.8 | mg/Kg | 1 | 50.0 | 112 | 70 - 130 |

Sample: 406090 - DP-4

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 125587
Prep Batch: 106233

Analytical Method: S 8015 D
Date Analyzed: 2015-10-15
Sample Preparation: 2015-10-14

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| GRO | u | s | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.80 | mg/Kg | 1 | 2.00 | 90 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.76 | mg/Kg | 1 | 2.00 | 88 | 70 - 130 |

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Sample: 406091 - DP-5

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | Analytical Method: | S 8021B | Prep Method: | S 5035 |
| Analysis: | BTEX | Date Analyzed: | 2015-10-15 | Analyzed By: | AK |
| QC Batch: | 125591 | Sample Preparation: | 2015-10-14 | Prepared By: | AK |
| Prep Batch: | 106233 | | | | |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|---------|-------|----------|--------|
| Benzene | U | s | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | s | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | s | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | s | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.88 | mg/Kg | 1 | 2.00 | 94 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.94 | mg/Kg | 1 | 2.00 | 97 | 70 - 130 |

Sample: 406091 - DP-5

| | | | | | |
|-------------|---------------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | E 300.0 | Prep Method: | N/A |
| Analysis: | Chloride (IC) | Date Analyzed: | 2015-10-15 | Analyzed By: | RL |
| QC Batch: | 125621 | Sample Preparation: | | Prepared By: | RL |
| Prep Batch: | 106258 | | | | |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|-------|--------|-------|----------|------|
| Chloride | | 1,2,4 | 1400 | mg/Kg | 5 | 25.0 |

Sample: 406091 - DP-5

| | | | | | |
|-------------|-----------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | E 418.1 | Prep Method: | N/A |
| Analysis: | TPH 418.1 | Date Analyzed: | 2015-10-21 | Analyzed By: | ZY |
| QC Batch: | 125797 | Sample Preparation: | 2015-10-21 | Prepared By: | ZY |
| Prep Batch: | 106421 | | | | |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| TRPHC | | | <10.0 | mg/Kg | 1 | 10.0 |

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Sample: 406091 - DP-5

Laboratory: Midland

Analysis: TPH DRO

QC Batch: 125601

Prep Batch: 106228

Analytical Method: S 8015 D

Date Analyzed: 2015-10-15

Sample Preparation: 2015-10-14

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | RL | | Units | Dilution | RL | |
|-------------|----------------|------|--------|-------|--------------|------------------|-----------------|----------|
| | | | Result | <50.0 | | | | |
| DRO | J _e | 3 | | | mg/Kg | 1 | 50.0 | |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery | Recovery Limits | |
| n-Tricosane | | | 55.1 | mg/Kg | 1 | 50.0 | 110 | 70 - 130 |

Sample: 406091 - DP-5

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 125587

Prep Batch: 106233

Analytical Method: S 8015 D

Date Analyzed: 2015-10-15

Sample Preparation: 2015-10-14

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | RL | | Units | Dilution | RL | |
|------------------------------|------|------|--------|-------|--------------|------------------|-----------------|----------|
| | | | Result | <4.00 | | | | |
| GRO | U | 3 | | | mg/Kg | 1 | 4.00 | |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery | Recovery Limits | |
| Trifluorotoluene (TFT) | | | 1.83 | mg/Kg | 1 | 2.00 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.80 | mg/Kg | 1 | 2.00 | 90 | 70 - 130 |

Sample: 406092 - Comp-1

Laboratory: Midland

Analysis: BTEX

QC Batch: 125591

Prep Batch: 106233

Analytical Method: S 8021B

Date Analyzed: 2015-10-15

Sample Preparation: 2015-10-14

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | RL | | Units | Dilution | RL |
|--------------|------|------|--------|---------|-------|----------|--------|
| | | | Result | <0.0200 | | | |
| Benzene | U | 3 | | | mg/Kg | 1 | 0.0200 |
| Toluene | U | 3 | | | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | 3 | | | mg/Kg | 1 | 0.0200 |
| Xylene | U | 3 | | | mg/Kg | 1 | 0.0200 |

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| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.84 | mg/Kg | 1 | 2.00 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.00 | mg/Kg | 1 | 2.00 | 100 | 70 - 130 |

Sample: 406092 - Comp-1

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 125692
Prep Batch: 106322

Analytical Method: E 300.0
Date Analyzed: 2015-10-19
Sample Preparation:

Prep Method: N/A
Analyzed By: RL
Prepared By: RL

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|-------|--------|-------|----------|------|
| Chloride | | 1,2,4 | 97.8 | mg/Kg | 1 | 25.0 |

Sample: 406092 - Comp-1

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 125797
Prep Batch: 106421

Analytical Method: E 418.1
Date Analyzed: 2015-10-21
Sample Preparation: 2015-10-21

Prep Method: N/A
Analyzed By: ZY
Prepared By: ZY

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| TRPHC | | | 16.0 | mg/Kg | 1 | 10.0 |

Sample: 406092 - Comp-1

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 125601
Prep Batch: 106228

Analytical Method: S 8015 D
Date Analyzed: 2015-10-15
Sample Preparation: 2015-10-14

Prep Method: N/A
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| DRO | Je | 3 | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | | 56.9 | mg/Kg | 1 | 50.0 | 114 | 70 - 130 |

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Sample: 406092 - Comp-1

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | | | | |
| Analysis: | TPH GRO | Analytical Method: | S 8015 D | Prep Method: | S 5035 |
| QC Batch: | 125587 | Date Analyzed: | 2015-10-15 | Analyzed By: | AK |
| Prep Batch: | 106233 | Sample Preparation: | 2015-10-14 | Prepared By: | AK |

| Parameter | Flag | Cert | RL | Units | Dilution | RL |
|------------------------------|------|------|--------|-------|----------|--------------|
| | | | Result | | | |
| GRO | u | s | <4.00 | mg/Kg | 1 | 4.00 |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount |
| Trifluorotoluene (TFT) | | | 1.77 | mg/Kg | 1 | 2.00 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.81 | mg/Kg | 1 | 2.00 |

Sample: 406093 - Comp-3

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | | | | |
| Analysis: | BTEX | Analytical Method: | S 8021B | Prep Method: | S 5035 |
| QC Batch: | 125591 | Date Analyzed: | 2015-10-15 | Analyzed By: | AK |
| Prep Batch: | 106233 | Sample Preparation: | 2015-10-14 | Prepared By: | AK |

| Parameter | Flag | Cert | RL | Units | Dilution | RL |
|------------------------------|------|------|---------|-------|----------|--------------|
| | | | Result | | | |
| Benzene | u | s | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | u | s | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | u | s | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | u | s | <0.0200 | mg/Kg | 1 | 0.0200 |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount |
| Trifluorotoluene (TFT) | | | 1.91 | mg/Kg | 1 | 2.00 |
| 4-Bromofluorobenzene (4-BFB) | | | 2.00 | mg/Kg | 1 | 2.00 |

Sample: 406093 - Comp-3

| | | | | | |
|-------------|---------------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | | | | |
| Analysis: | Chloride (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
| QC Batch: | 125621 | Date Analyzed: | 2015-10-15 | Analyzed By: | RL |
| Prep Batch: | 106258 | Sample Preparation: | | Prepared By: | RL |

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sample 406093 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|-----------------------------|-------|----------|------|
| Chloride | | | 100 <small>1,2,4</small> | mg/Kg | 1 | 25.0 |

Sample: 406093 - Comp-3

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 125797
Prep Batch: 106421

Analytical Method: E 418.1
Date Analyzed: 2015-10-21
Sample Preparation: 2015-10-21

Prep Method: N/A
Analyzed By: ZY
Prepared By: ZY

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| TRPHC | | | 306 | mg/Kg | 25 | 10.0 |

Sample: 406093 - Comp-3

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 125613
Prep Batch: 106256

Analytical Method: S 8015 D
Date Analyzed: 2015-10-15
Sample Preparation: 2015-10-15

Prep Method: N/A
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| DRO | | s | 139 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| n-Tricosane | Qsr | Qsr | 77.9 | mg/Kg | 1 | 50.0 | 156 | 70 - 130 |

Sample: 406093 - Comp-3

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 125587
Prep Batch: 106233

Analytical Method: S 8015 D
Date Analyzed: 2015-10-15
Sample Preparation: 2015-10-14

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

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sample 406093 continued . . .

| Parameter | Flag | Cert | Result | Units | Dilution | RL | | |
|------------------------------|------|------|--------|-------|--------------|------------------|-----------------|----------|
| GRO | U | s | <4.00 | mg/Kg | 1 | 4.00 | | |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery | Recovery Limits | |
| Trifluorotoluene (TFT) | | | 1.83 | mg/Kg | 1 | 2.00 | 92 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.82 | mg/Kg | 1 | 2.00 | 91 | 70 - 130 |

Sample: 406094 - Comp-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 125591
Prep Batch: 106233

Analytical Method: S 8021B
Date Analyzed: 2015-10-15
Sample Preparation: 2015-10-14

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

| Parameter | Flag | Cert | Result | | Dilution | RL | | |
|------------------------------|------|------|---------|-------|----------|--------------|------------------|-----------------|
| Benzene | U | s | <0.0200 | | mg/Kg | 1 | 0.0200 | |
| Toluene | U | s | <0.0200 | mg/Kg | 1 | 0.0200 | | |
| Ethylbenzene | U | s | <0.0200 | mg/Kg | 1 | 0.0200 | | |
| Xylene | U | s | <0.0200 | mg/Kg | 1 | 0.0200 | | |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Trifluorotoluene (TFT) | | | 1.91 | mg/Kg | 1 | 2.00 | 96 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.88 | mg/Kg | 1 | 2.00 | 94 | 70 - 130 |

Sample: 406094 - Comp-4

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 125621
Prep Batch: 106258

Analytical Method: E 300.0
Date Analyzed: 2015-10-15
Sample Preparation:

Prep Method: N/A
Analyzed By: RL
Prepared By: RL

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|-------|--------|-------|----------|------|
| Chloride | | 1,2,4 | 48.1 | mg/Kg | 1 | 25.0 |

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Sample: 406094 - Comp-4

| | | | | | |
|-------------|-----------|---------------------|------------|--------------|-----|
| Laboratory: | Lubbock | Analytical Method: | E 418.1 | Prep Method: | N/A |
| Analysis: | TPH 418.1 | Date Analyzed: | 2015-10-21 | Analyzed By: | ZY |
| QC Batch: | 125797 | Sample Preparation: | 2015-10-21 | Prepared By: | ZY |
| Prep Batch: | 106421 | | | | |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| TRPHC | | | 50.3 | mg/Kg | 1 | 10.0 |

Sample: 406094 - Comp-4

| | | | | | |
|-------------|---------|---------------------|------------|--------------|-----|
| Laboratory: | Midland | Analytical Method: | S 8015 D | Prep Method: | N/A |
| Analysis: | TPH DRO | Date Analyzed: | 2015-10-15 | Analyzed By: | AK |
| QC Batch: | 125613 | Sample Preparation: | 2015-10-15 | Prepared By: | AK |
| Prep Batch: | 106256 | | | | |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| DRO | s | | <50.0 | mg/Kg | 1 | 50.0 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Tricosane | | | 62.3 | mg/Kg | 1 | 50.0 | 125 | 70 - 130 |

Sample: 406094 - Comp-4

| | | | | | |
|-------------|---------|---------------------|------------|--------------|--------|
| Laboratory: | Midland | Analytical Method: | S 8015 D | Prep Method: | S 5035 |
| Analysis: | TPH GRO | Date Analyzed: | 2015-10-15 | Analyzed By: | AK |
| QC Batch: | 125587 | Sample Preparation: | 2015-10-14 | Prepared By: | AK |
| Prep Batch: | 106233 | | | | |

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| GRO | u | s | <4.00 | mg/Kg | 1 | 4.00 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.78 | mg/Kg | 1 | 2.00 | 89 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.72 | mg/Kg | 1 | 2.00 | 86 | 70 - 130 |

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Sample: 406095 - Comp-5

Laboratory: Midland

Analysis: BTEX

Analytical Method: S 8021B

Prep Method: S 5035

QC Batch: 125591

Date Analyzed: 2015-10-15

Analyzed By: AK

Prep Batch: 106233

Sample Preparation: 2015-10-14

Prepared By: AK

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|--------------|------|------|---------|-------|----------|--------|
| Benzene | U | s | <0.0200 | mg/Kg | 1 | 0.0200 |
| Toluene | U | s | <0.0200 | mg/Kg | 1 | 0.0200 |
| Ethylbenzene | U | s | <0.0200 | mg/Kg | 1 | 0.0200 |
| Xylene | U | s | <0.0200 | mg/Kg | 1 | 0.0200 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT) | | | 1.87 | mg/Kg | 1 | 2.00 | 94 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.94 | mg/Kg | 1 | 2.00 | 97 | 70 - 130 |

Sample: 406095 - Comp-5

Laboratory: Lubbock

Analysis: Chloride (IC)

Analytical Method: E 300.0

Prep Method: N/A

QC Batch: 125621

Date Analyzed: 2015-10-15

Analyzed By: RL

Prep Batch: 106258

Sample Preparation:

Prepared By: RL

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|-------|--------|-------|----------|------|
| Chloride | | 1,2,4 | 426 | mg/Kg | 10 | 25.0 |

Sample: 406095 - Comp-5

Laboratory: Lubbock

Analysis: TPH 418.1

Analytical Method: E 418.1

Prep Method: N/A

QC Batch: 125797

Date Analyzed: 2015-10-21

Analyzed By: ZY

Prep Batch: 106421

Sample Preparation: 2015-10-21

Prepared By: ZY

| Parameter | Flag | Cert | Result | Units | Dilution | RL |
|-----------|------|------|--------|-------|----------|------|
| TRPHC | | | 17.9 | mg/Kg | 1 | 10.0 |

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Sample: 406095 - Comp-5

Laboratory: Midland

Analysis: TPH DRO

QC Batch: 125580

Prep Batch: 106226

Analytical Method: S 8015 D

Date Analyzed: 2015-10-14

Sample Preparation: 2015-10-14

Prep Method: N/A

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | RL | | Dilution | RL |
|-------------|------|------|--------|-------|--------------|------------------|
| | | | Result | Units | | |
| DRO | qr,u | s | <50.0 | mg/Kg | 1 | 50.0 |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery |
| n-Tricosane | | | 51.5 | mg/Kg | 1 | 50.0 |
| | | | | | | Recovery Limits |
| | | | | | 103 | 70 - 130 |

Sample: 406095 - Comp-5

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 125587

Prep Batch: 106233

Analytical Method: S 8015 D

Date Analyzed: 2015-10-15

Sample Preparation: 2015-10-14

Prep Method: S 5035

Analyzed By: AK

Prepared By: AK

| Parameter | Flag | Cert | RL | | Dilution | RL |
|------------------------------|------|------|--------|-------|--------------|------------------|
| | | | Result | Units | | |
| GRO | u | s | <4.00 | mg/Kg | 1 | 4.00 |
| Surrogate | Flag | Cert | Result | Units | Spike Amount | Percent Recovery |
| Trifluorotoluene (TFT) | | | 1.78 | mg/Kg | 1 | 2.00 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.76 | mg/Kg | 1 | 2.00 |
| | | | | | 89 | 70 - 130 |
| | | | | | 88 | 70 - 130 |

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Method Blanks

Method Blank (1) QC Batch: 125580

QC Batch: 125580 Date Analyzed: 2015-10-14 Analyzed By: AK
Prep Batch: 106226 QC Preparation: 2015-10-14 Prepared By: AK

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-------------|------|------|------------|--------------|------------------|
| DRO | | s | <7.41 | mg/Kg | 50 |
| Surrogate | Flag | Cert | Result | Spike Amount | Percent Recovery |
| n-Tricosane | | 50.6 | mg/Kg | 1 | 50.0 |

Method Blank (1) QC Batch: 125587

QC Batch: 125587 Date Analyzed: 2015-10-15 Analyzed By: AK
Prep Batch: 106233 QC Preparation: 2015-10-14 Prepared By: AK

| Parameter | Flag | Cert | MDL Result | Units | RL |
|------------------------------|------|------|------------|--------------|------------------|
| GRO | | s | <2.32 | mg/Kg | 4 |
| Surrogate | Flag | Cert | Result | Spike Amount | Percent Recovery |
| Trifluorotoluene (TFT) | | 1.86 | mg/Kg | 1 | 2.00 |
| 4-Bromofluorobenzene (4-BFB) | | 1.72 | mg/Kg | 1 | 2.00 |

Method Blank (1) QC Batch: 125591

QC Batch: 125591 Date Analyzed: 2015-10-15 Analyzed By: AK
Prep Batch: 106233 QC Preparation: 2015-10-14 Prepared By: AK

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|------------|-------|------|
| Benzene | | s | <0.00533 | mg/Kg | 0.02 |
| Toluene | | s | <0.00645 | mg/Kg | 0.02 |
| Ethylbenzene | | s | <0.0116 | mg/Kg | 0.02 |

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method blank continued . . .

| Parameter | Flag | Cert | MDL | | Units | RL |
|------------------------------|------|------|----------|-------|------------------|-----------------|
| | | | Result | s | | |
| Xylene | | | <0.00874 | | mg/Kg | 0.02 |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount |
| Trifluorotoluene (TFT) | | | 1.84 | mg/Kg | 1 | 2.00 |
| 4-Bromofluorobenzene (4-BFB) | | | 1.87 | mg/Kg | 1 | 2.00 |
| | | | | | Percent Recovery | Recovery Limits |
| | | | | | 92 | 70 - 130 |
| | | | | | 94 | 70 - 130 |

Method Blank (1) QC Batch: 125601

QC Batch: 125601 Date Analyzed: 2015-10-15 Analyzed By: AK
Prep Batch: 106228 QC Preparation: 2015-10-14 Prepared By: AK

| Parameter | Flag | Cert | MDL | | Units | RL |
|-------------|------|------|--------|-------|------------------|-----------------|
| | | | Result | s | | |
| DRO | | | <7.41 | | mg/Kg | 50 |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount |
| n-Tricosane | | | 50.3 | mg/Kg | 1 | 50.0 |
| | | | | | Percent Recovery | Recovery Limits |
| | | | | | 101 | 70 - 130 |

Method Blank (1) QC Batch: 125613

QC Batch: 125613 Date Analyzed: 2015-10-15 Analyzed By: AK
Prep Batch: 106256 QC Preparation: 2015-10-15 Prepared By: AK

| Parameter | Flag | Cert | MDL | | Units | RL |
|-------------|------|------|--------|-------|------------------|-----------------|
| | | | Result | s | | |
| DRO | | | <7.41 | | mg/Kg | 50 |
| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount |
| n-Tricosane | | | 49.9 | mg/Kg | 1 | 50.0 |
| | | | | | Percent Recovery | Recovery Limits |
| | | | | | 100 | 70 - 130 |

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Method Blank (1) QC Batch: 125621

QC Batch: 125621 Date Analyzed: 2015-10-15 Analyzed By: RL
Prep Batch: 106258 QC Preparation: 2015-10-15 Prepared By: RL

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|-------|------------|-------|----|
| Chloride | | 1,2,4 | <8.34 | mg/Kg | 25 |

Method Blank (1) QC Batch: 125692

QC Batch: 125692 Date Analyzed: 2015-10-19 Analyzed By: RL
Prep Batch: 106322 QC Preparation: 2015-10-19 Prepared By: RL

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|-------|------------|-------|----|
| Chloride | | 1,2,4 | <8.34 | mg/Kg | 25 |

Method Blank (1) QC Batch: 125797

QC Batch: 125797 Date Analyzed: 2015-10-21 Analyzed By: ZY
Prep Batch: 106421 QC Preparation: 2015-10-21 Prepared By: ZY

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|------------|-------|----|
| TRPHC | | | <4.53 | mg/Kg | 10 |

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 125580 Date Analyzed: 2015-10-14 Analyzed By: AK
Prep Batch: 106226 QC Preparation: 2015-10-14 Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|------------|-------|------|--------------|---------------|------|------------|
| DRO | | 3 | 217 | mg/Kg | 1 | 250 | <7.41 | 87 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | |
|-------|---|---|-------------|-------|------|--------------|---------------|------|----------|------------|----|
| DRO | | 3 | 211 | mg/Kg | 1 | 250 | <7.41 | 84 | 70 - 130 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. | Rec. Limit |
|-------------|------------|-------------|-------|------|--------------|----------|-----------|----------|------------|
| n-Tricosane | 53.2 | 51.6 | mg/Kg | 1 | 50.0 | 106 | 103 | 70 - 130 | |

Laboratory Control Spike (LCS-1)

QC Batch: 125587 Date Analyzed: 2015-10-15 Analyzed By: AK
Prep Batch: 106233 QC Preparation: 2015-10-14 Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|------------|-------|------|--------------|---------------|------|------------|
| GRO | | 3 | 21.7 | mg/Kg | 1 | 20.0 | <2.32 | 108 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | |
|-------|---|---|-------------|-------|------|--------------|---------------|------|----------|------------|----|
| GRO | | 3 | 22.7 | mg/Kg | 1 | 20.0 | <2.32 | 114 | 70 - 130 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|----------|------------|
| Trifluorotoluene (TFT) | 1.84 | 1.84 | mg/Kg | 1 | 2.00 | 92 | 92 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | 1.72 | 1.75 | mg/Kg | 1 | 2.00 | 86 | 88 | 70 - 130 | |

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Laboratory Control Spike (LCS-1)

QC Batch: 125591
Prep Batch: 106233

Date Analyzed: 2015-10-15
QC Preparation: 2015-10-14

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Benzene | | 3 | 2.30 | mg/Kg | 1 | 2.00 | <0.00533 | 115 | 70 - 130 |
| Toluene | | 3 | 2.00 | mg/Kg | 1 | 2.00 | <0.00645 | 100 | 70 - 130 |
| Ethylbenzene | | 3 | 1.82 | mg/Kg | 1 | 2.00 | <0.0116 | 91 | 70 - 130 |
| Xylene | | 3 | 5.47 | mg/Kg | 1 | 6.00 | <0.00874 | 91 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | | 3 | 2.35 | mg/Kg | 1 | 2.00 | <0.00533 | 118 | 70 - 130 | 2 | 20 |
| Toluene | | 3 | 2.08 | mg/Kg | 1 | 2.00 | <0.00645 | 104 | 70 - 130 | 4 | 20 |
| Ethylbenzene | | 3 | 1.90 | mg/Kg | 1 | 2.00 | <0.0116 | 95 | 70 - 130 | 4 | 20 |
| Xylene | | 3 | 5.65 | mg/Kg | 1 | 6.00 | <0.00874 | 94 | 70 - 130 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|--|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | | 1.64 | 1.66 | mg/Kg | 1 | 2.00 | 82 | 83 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | 1.86 | 1.81 | mg/Kg | 1 | 2.00 | 93 | 90 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 125601
Prep Batch: 106228

Date Analyzed: 2015-10-15
QC Preparation: 2015-10-14

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|------------|-------|------|--------------|---------------|------|------------|
| DRO | | 3 | 236 | mg/Kg | 1 | 250 | <7.41 | 94 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| DRO | | 3 | 245 | mg/Kg | 1 | 250 | <7.41 | 98 | 70 - 130 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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control spikes continued ...

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
| n-Tricosane | 55.2 | 57.6 | mg/Kg | 1 | 50.0 | 110 | 115 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 125613
Prep Batch: 106256

Date Analyzed: 2015-10-15
QC Preparation: 2015-10-15

Analyzed By: AK
Prepared By: AK

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|-----|---------------|-------|------|-----------------|------------------|----------|---------------|
| DRO | 3 | 202 | mg/Kg | 1 | 250 | <7.41 | 81 | 70 - 130 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|-----|----------------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
| DRO | 3 | 207 | mg/Kg | 1 | 250 | <7.41 | 83 | 70 - 130 | 2 | 20 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|-------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| n-Tricosane | 45.9 | 46.0 | mg/Kg | 1 | 50.0 | 92 | 92 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 125621
Prep Batch: 106258

Date Analyzed: 2015-10-15
QC Preparation: 2015-10-15

Analyzed By: RL
Prepared By: RL

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|-------|---|------------|-------|------|--------------|---------------|------|------------|
| Chloride | 1,2,4 | | 260 | mg/Kg | 1 | 250 | <8.34 | 104 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Rec. | Rec. Limit | RPD | RPD Limit |
|----------|-------|-----|----------------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
| Chloride | 1,2,4 | 259 | mg/Kg | 1 | 250 | <8.34 | 104 | 90 - 110 | 0 | 20 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Laboratory Control Spike (LCS-1)

QC Batch: 125692
Prep Batch: 106322

Date Analyzed: 2015-10-19
QC Preparation: 2015-10-19

Analyzed By: RL
Prepared By: RL

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Chloride | | | 1,2,4 256 | mg/Kg | 1 | 250 | <8.34 | 102 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | | | 1,2,4 251 | mg/Kg | 1 | 250 | <8.34 | 100 | 90 - 110 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 125797
Prep Batch: 106421

Date Analyzed: 2015-10-21
QC Preparation: 2015-10-21

Analyzed By: ZY
Prepared By: ZY

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|---|---|------------|-------|------|--------------|---------------|------|------------|
| TRPHC | | | 50.3 | mg/Kg | 1 | 50.0 | <4.53 | 101 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| TRPHC | | | 52.3 | mg/Kg | 1 | 50.0 | <4.53 | 105 | 80 - 120 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 406095

QC Batch: 125580 Date Analyzed: 2015-10-14 Analyzed By: AK
Prep Batch: 106226 QC Preparation: 2015-10-14 Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|----------------|----------------|-----------|-----------|------|--------------|---------------|------|------------|
| DRO | Q _s | Q _s | s | 166 mg/Kg | 1 | 250 | <7.41 | 66 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|----------------|----------------|------------|-----------|------|--------------|---------------|------|------------|-----|-----------|
| DRO | Q _r | Q _r | s | 212 mg/Kg | 1 | 250 | <7.41 | 85 | 70 - 130 | 24 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. | Rec. Limit |
|-------------|-----------|------------|-------|------|--------------|---------|----------|----------|------------|
| n-Tricosane | 44.0 | 56.9 | mg/Kg | 1 | 50 | 88 | 114 | 70 - 130 | |

Matrix Spike (MS-1) Spiked Sample: 406088

QC Batch: 125587 Date Analyzed: 2015-10-15 Analyzed By: AK
Prep Batch: 106233 QC Preparation: 2015-10-14 Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|----------------|----------------|-----------|------------|------|--------------|---------------|------|------------|
| GRO | Q _s | Q _s | s | 12.2 mg/Kg | 1 | 20.0 | <2.32 | 61 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-------|----------------|----------------|------------|------------|------|--------------|---------------|------|------------|-----|-----------|
| GRO | Q _s | Q _s | s | 12.7 mg/Kg | 1 | 20.0 | <2.32 | 64 | 70 - 130 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|----------|------------|
| Trifluorotoluene (TFT) | 1.82 | 1.70 | mg/Kg | 1 | 2 | 91 | 85 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | 1.96 | 1.88 | mg/Kg | 1 | 2 | 98 | 94 | 70 - 130 | |

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Matrix Spike (MS-1) Spiked Sample: 406017

QC Batch: 125591
Prep Batch: 106233

Date Analyzed: 2015-10-15
QC Preparation: 2015-10-14

Analyzed By: AK
Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | s | | 1.64 | mg/Kg | 1 | 2.00 | <0.00533 | 82 | 70 - 130 |
| Toluene | s | | 1.55 | mg/Kg | 1 | 2.00 | <0.00645 | 78 | 70 - 130 |
| Ethylbenzene | s | | 1.55 | mg/Kg | 1 | 2.00 | <0.0116 | 78 | 70 - 130 |
| Xylene | s | | 4.45 | mg/Kg | 1 | 6.00 | <0.00874 | 74 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | s | | 1.70 | mg/Kg | 1 | 2.00 | <0.00533 | 85 | 70 - 130 | 4 | 20 |
| Toluene | s | | 1.71 | mg/Kg | 1 | 2.00 | <0.00645 | 86 | 70 - 130 | 10 | 20 |
| Ethylbenzene | s | | 1.71 | mg/Kg | 1 | 2.00 | <0.0116 | 86 | 70 - 130 | 10 | 20 |
| Xylene | s | | 4.92 | mg/Kg | 1 | 6.00 | <0.00874 | 82 | 70 - 130 | 10 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | F | C | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. | Limit |
|------------------------------|---|---|-----------|------------|-------|------|--------------|---------|----------|----------|-------|
| Trifluorotoluene (TFT) | | | 1.82 | 1.79 | mg/Kg | 1 | 2 | 91 | 90 | 70 - 130 | |
| 4-Bromofluorobenzene (4-BFB) | | | 1.93 | 1.81 | mg/Kg | 1 | 2 | 96 | 90 | 70 - 130 | |

Matrix Spike (xMS-1) Spiked Sample: 406344

QC Batch: 125601
Prep Batch: 106228

Date Analyzed: 2015-10-15
QC Preparation: 2015-10-14

Analyzed By: AK
Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | |
|-------|----------------|----------------|-----------|-------|-------|--------------|---------------|------|------------|----------|
| DRO | Q _s | Q _s | 3 | 6340 | mg/Kg | 1 | 250 | 5710 | 252 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit | |
|-------|----------------|----------------|------------|-------|-------|--------------|---------------|------|------------|----------|-----------|----|
| DRO | Q _s | Q _s | 3 | 6760 | mg/Kg | 1 | 250 | 5710 | 420 | 70 - 130 | 6 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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matrix spikes continued . . .

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit | | |
|-------------|-----------------|-----------------|-------|------|--------------|---------|----------|------------|-----|----------|
| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit | | |
| n-Tricosane | Q _{sr} | Q _{sr} | 582 | 366 | mg/Kg | 1 | 50 | 1164 | 732 | 70 - 130 |

Matrix Spike (xMS-1) Spiked Sample: 406430

QC Batch: 125613 Date Analyzed: 2015-10-15 Analyzed By: AK
Prep Batch: 106256 QC Preparation: 2015-10-15 Prepared By: AK

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-------|----------------|----------------|-----------|-------|------|--------------|---------------|------|------------|
| DRO | Q _s | Q _s | 602 | mg/Kg | 1 | 250 | 926 | -128 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | Limit |
|-------|----------------|----------------|------------|-------|------|--------------|---------------|------|------------|-----|-------|
| DRO | Q _s | Q _s | 652 | mg/Kg | 1 | 250 | 926 | -108 | 70 - 130 | 8 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit | | |
|-------------|-----------------|-----------------|-------|------|--------------|---------|----------|------------|-----|----------|
| n-Tricosane | Q _{sr} | Q _{sr} | 81.4 | 85.2 | mg/Kg | 1 | 50 | 163 | 170 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 406093

QC Batch: 125621 Date Analyzed: 2015-10-15 Analyzed By: RL
Prep Batch: 106258 QC Preparation: 2015-10-15 Prepared By: RL

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|-------|---|-----------|-------|------|--------------|---------------|------|------------|
| Chloride | 1,2,4 | | 340 | mg/Kg | 1 | 250 | 100 | 96 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | Limit |
|----------|-------|---|------------|-------|------|--------------|---------------|------|------------|-----|-------|
| Chloride | 1,2,4 | | 349 | mg/Kg | 1 | 250 | 100 | 100 | 80 - 120 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Matrix Spike (MS-2) Spiked Sample: 406256

QC Batch: 125621
Prep Batch: 106258

Date Analyzed: 2015-10-15
QC Preparation: 2015-10-15

Analyzed By: RL
Prepared By: RL

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Matrix Rec. | Rec. Limit |
|----------|----------------|----------------|------------|-------|------|--------------|---------------|-------------|------------|
| Chloride | Q _B | Q _B | 1,2,4 2600 | mg/Kg | 5 | 250 | 2470 | 52 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Limit | RPD | Limit | |
|----------|----------------|----------------|------------|-------|------|--------------|---------------|------------|----------|-------|----|
| Chloride | Q _B | Q _B | 1,2,4 2470 | mg/Kg | 5 | 250 | 2470 | 0 | 80 - 120 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 406375

QC Batch: 125692
Prep Batch: 106322

Date Analyzed: 2015-10-19
QC Preparation: 2015-10-19

Analyzed By: RL
Prepared By: RL

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Matrix Rec. | Rec. Limit |
|----------|---|-------|-----------|-------|------|--------------|---------------|-------------|------------|
| Chloride | | 1,2,4 | 264 | mg/Kg | 1 | 250 | 10.8 | 101 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Limit | RPD | Limit | |
|----------|---|-------|------------|-------|------|--------------|---------------|------------|----------|-------|----|
| Chloride | | 1,2,4 | 260 | mg/Kg | 1 | 250 | 10.8 | 100 | 80 - 120 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 406090

QC Batch: 125797
Prep Batch: 106421

Date Analyzed: 2015-10-21
QC Preparation: 2015-10-21

Analyzed By: ZY
Prepared By: ZY

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Matrix Rec. | Rec. Limit |
|-------|---|---|-----------|-------|------|--------------|---------------|-------------|------------|
| TRPHC | | | 50.3 | mg/Kg | 1 | 50.0 | <4.53 | 101 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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| Param | F | C | MSD | | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit | |
|-------|---|---|--------|-------|--------------|---------------|-------|------------|----------|-----------|----|
| | | | Result | Units | | | | | | | |
| TRPHC | | | 50.3 | mg/Kg | 1 | 50.0 | <4.53 | 101 | 80 - 120 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

| QC Batch: 125580 | | | Date Analyzed: 2015-10-14 | | | Analyzed By: AK | | |
|------------------|------|------|---------------------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| DRO | s | | mg/Kg | 250 | 242 | 97 | 80 - 120 | 2015-10-14 |

Standard (CCV-2)

| QC Batch: 125580 | | | Date Analyzed: 2015-10-14 | | | Analyzed By: AK | | |
|------------------|------|------|---------------------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| DRO | s | | mg/Kg | 250 | 212 | 85 | 80 - 120 | 2015-10-14 |

Standard (CCV-3)

| QC Batch: 125580 | | | Date Analyzed: 2015-10-14 | | | Analyzed By: AK | | |
|------------------|------|------|---------------------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| DRO | s | | mg/Kg | 250 | 226 | 90 | 80 - 120 | 2015-10-14 |

Standard (CCV-1)

| QC Batch: 125587 | | | Date Analyzed: 2015-10-15 | | | Analyzed By: AK | | |
|------------------|------|------|---------------------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
| GRO | s | | mg/Kg | 1.00 | 1.03 | 103 | 80 - 120 | 2015-10-15 |

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Standard (CCV-2)

QC Batch: 125587 Date Analyzed: 2015-10-15 Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | s | mg/Kg | 1.00 | 0.824 | 82 | 80 - 120 | 2015-10-15 | |

Standard (CCV-3)

QC Batch: 125587 Date Analyzed: 2015-10-15 Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO | s | mg/Kg | 1.00 | 1.16 | 116 | 80 - 120 | 2015-10-15 | |

Standard (CCV-1)

QC Batch: 125591 Date Analyzed: 2015-10-15 Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | s | mg/kg | 0.100 | 0.117 | 117 | 80 - 120 | 2015-10-15 | |
| Toluene | s | mg/kg | 0.100 | 0.105 | 105 | 80 - 120 | 2015-10-15 | |
| Ethylbenzene | s | mg/kg | 0.100 | 0.0962 | 96 | 80 - 120 | 2015-10-15 | |
| Xylene | s | mg/kg | 0.300 | 0.287 | 96 | 80 - 120 | 2015-10-15 | |

Standard (CCV-2)

QC Batch: 125591 Date Analyzed: 2015-10-15 Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | s | mg/kg | 0.100 | 0.115 | 115 | 80 - 120 | 2015-10-15 | |
| Toluene | s | mg/kg | 0.100 | 0.0991 | 99 | 80 - 120 | 2015-10-15 | |
| Ethylbenzene | s | mg/kg | 0.100 | 0.0913 | 91 | 80 - 120 | 2015-10-15 | |
| Xylene | s | mg/kg | 0.300 | 0.269 | 90 | 80 - 120 | 2015-10-15 | |

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Standard (CCV-3)

QC Batch: 125591 Date Analyzed: 2015-10-15 Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | s | | mg/kg | 0.100 | 0.115 | 115 | 80 - 120 | 2015-10-15 |
| Toluene | s | | mg/kg | 0.100 | 0.101 | 101 | 80 - 120 | 2015-10-15 |
| Ethylbenzene | s | | mg/kg | 0.100 | 0.0927 | 93 | 80 - 120 | 2015-10-15 |
| Xylene | s | | mg/kg | 0.300 | 0.272 | 91 | 80 - 120 | 2015-10-15 |

Standard (CCV-1)

QC Batch: 125601 Date Analyzed: 2015-10-15 Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | s | | mg/Kg | 250 | 226 | 90 | 80 - 120 | 2015-10-15 |

Standard (CCV-2)

QC Batch: 125601 Date Analyzed: 2015-10-15 Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | s | | mg/Kg | 250 | 240 | 96 | 80 - 120 | 2015-10-15 |

Standard (CCV-2)

QC Batch: 125613 Date Analyzed: 2015-10-15 Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | s | | mg/Kg | 250 | 226 | 90 | 80 - 120 | 2015-10-15 |

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Standard (CCV-3)

QC Batch: 125613 Date Analyzed: 2015-10-15 Analyzed By: AK

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO | s | mg/Kg | 250 | 232 | 93 | 80 - 120 | 2015-10-15 | |

Standard (CCV-1)

QC Batch: 125621 Date Analyzed: 2015-10-15 Analyzed By: RL

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|-------|-------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | 1,2,4 | mg/Kg | 25.0 | 26.0 | 104 | 90 - 110 | 2015-10-15 | |

Standard (CCV-2)

QC Batch: 125621 Date Analyzed: 2015-10-15 Analyzed By: RL

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|-------|-------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | 1,2,4 | mg/Kg | 25.0 | 26.1 | 104 | 90 - 110 | 2015-10-15 | |

Standard (CCV-3)

QC Batch: 125621 Date Analyzed: 2015-10-15 Analyzed By: RL

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|-------|-------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | 1,2,4 | mg/Kg | 25.0 | 26.1 | 104 | 90 - 110 | 2015-10-15 | |

Standard (CCV-1)

QC Batch: 125692 Date Analyzed: 2015-10-19 Analyzed By: RL

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| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date |
|----------|-------|------|-------|------|-------|---------|----------|------------|
| | | | | True | Found | Percent | Recovery | Limits |
| Chloride | 1,2,4 | | mg/Kg | 25.0 | 25.6 | 102 | 90 - 110 | 2015-10-19 |

Standard (CCV-2)

QC Batch: 125692

Date Analyzed: 2015-10-19

Analyzed By: RL

| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date |
|----------|------|-------|-------|------|-------|---------|----------|------------|
| | | | | True | Found | Percent | Recovery | |
| Chloride | | 1,2,4 | mg/Kg | 25.0 | 25.5 | 102 | 90 - 110 | 2015-10-19 |

Standard (ICV-1)

QC Batch: 125797

Date Analyzed: 2015-10-21

Analyzed By: ZY

| Param | Flag | Cert | Units | ICVs | ICVs | ICVs | Percent | Date |
|-------|------|------|-------|------------|-------------|------------------|-----------------|------------|
| | | | | True Conc. | Found Conc. | Percent Recovery | Recovery Limits | Analyzed |
| TRPHC | | | mg/Kg | 50.0 | 42.7 | 85 | 80 - 120 | 2015-10-21 |

Standard (CCV-1)

QC Batch: 125797

Date Analyzed: 2015-10-21

Analyzed By: ZY

| Param | Flag | Cert | Units | CCVs | CCVs | CCVs | Percent | Date |
|-------|------|------|-------|------|-------|---------|----------|------------|
| | | | | True | Found | Percent | Recovery | |
| TRPHC | | | mg/Kg | 50.0 | 50.3 | 101 | 80 - 120 | 2015-10-21 |

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | LELAP | LELAP-02003 | Lubbock |
| 2 | NELAP | T104704219-16-12 | Lubbock |
| 3 | NELAP | T104704392-14-8 | Midland |
| 4 | | 2015-066 | Lubbock |

Standard Flags

| F | Description |
|-----|---|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| MI1 | Split peak or shoulder peak |
| MI2 | Instrument software did not integrate |
| MI3 | Instrument software misidentified the peak |
| MI4 | Instrument software integrated improperly |
| MI5 | Baseline correction |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Report Date: June 2, 2016
15-0121-01

Work Order: 15101304
R360 Artesia Landfarm

Page Number: 40 of 40

Result Comments

1 dilution due to hydrocarbons.

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

WO #: 15101304

CHAIN-OF-CUSTODY

Arson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0801

Data Reported to:

TRRP report? Yes No

TIME ZONE:
Time zone/State:

Field
Sample ID

TOTAL

~~RELIQUISHED BY:~~ (Signature)

DATE/TIM

RECEIVED BY: (Signature)

REND ID: U-11978-RX (Signature)

DATE/TIM

RECEIVED BY: (Signature)

REINQUISITION BY (Signature)

DATE/TIM

RECEIVED BY: (Signature)

DATE: 10/13/2015

PO #:

PROJECT LOCATION OR NAME:

LAI PROJECT #: 15-0121-0

PAGE 1 OF 1

LAB WORK ORDER #:

Wessex Land Farm

COLLECTOR: Sarah L. B. S.

RECEIVED
NEW MEXICO DEPARTMENT OF ENVIRONMENT
MARCH 10, 2016

March 7, 2016

2016 NM 10 P 21

Mr. Brad Jones
Oil Conservation Division
New Mexico Energy, Minerals and
Natural Resources Department
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: Buffer (Vadose) Zone Sampling Results, R360 Artesia, LLC Landfarm (NM1-30-0), Unit B
(NW/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico

Mr. Jones:

The enclosed data tables present laboratory results of random independent samples that were analyzed for TRPH, BTEX, chlorides, and constituents listed in subsection A and B of 20.6.2.3103. The samples were collected in the buffer zone at the R360 Artesia, LLC (formerly Artesia Aeration) Landfarm on, December 2, 2015. R360 would like to request a meeting in Santa Fe with you and Jim Griswold, Environmental Bureau Chief to discuss collection of additional background data, prescribed path to closure, and to explore the option for a risk based approach. You may contact me at (956) 458-0515 or by email at StephanieG@r360es.com.

Sincerely,



Stephanie Garza
Environmental Specialist
StephanieG@r360es.com

Table 2a. Cell 1 Buffer Resample for Inorganic Parameters and TRPH

| Sample | Date | Depth (Feet) | TRPH | Cyanide | Chloride | Fluoride | Nitrate-N | Sulfate | pH |
|--------------------------------|----------|--------------|-------------|---------------|-------------|-------------|-------------|-------------|------|
| Mean Background Concentration: | | | <4.89 | <0.22 | <2.52 | <0.83 | <2.52 | <8.5 | 7.6 |
| Reporting Limit (PQL) | | | <9.78 | <0.439 | <5.04 | <1.01 | <5.04 | <10.1 | |
| PQL Range (RL) | | | 9.55 - 10.0 | 0.428 - 0.450 | 5.02 - 5.06 | 1.00 - 1.01 | 5.02 - 5.06 | 10.0 - 10.1 | |
| Cell 1-1 | 12/02/15 | 2 - 3 | <10.9 | <0.561 | 15.6 | 3.43 | <5.04 | 70.6 | 8.16 |
| Cell 1-2 | 12/02/15 | 2 - 3 | <10.1 | <0.530 | 22.7 | 4.31 | <5.34 | 48.5 | 8.43 |
| Cell 1-3 | 12/02/15 | 2 - 3 | <11.3 | <0.549 | 1,580 | 3.17 | 10.1 | 210 | 7.82 |
| Cell 1-4 | 12/02/15 | 2 - 3 | <11.0 | <0.565 | 556 | 7.13 | <5.43 | 746 | 8.90 |

| Sample | Date | Depth (Feet) | Arsenic | Barium | Cadmium | Chromium | Copper | Iron | Lead | Manganese |
|--------------------------------|----------|--------------|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| Mean Background Concentration: | | | 1.63 | 21.0 | <0.148 | 4.81 | 1.45 | 5,380 | 2.87 | 48.0 |
| Reporting Limit (PQL) | | | 0.99 | 1.98 | <0.297 | 1.98 | 1.98 | 61.8 | 0.297 | 1.98 |
| PQL (RL) | | | 0.983 - 0.995 | 1.97 - 1.99 | 0.298 - 0.295 | 1.97 - 1.99 | 1.97 - 1.99 | 61.4 - 62.2 | 0.295 - 0.298 | 1.97 - 1.99 |
| Cell 1-1 | 12/02/15 | 2 - 3 | 3.90 | 605 | <0.297 | 14.1 | 6.10 | 12,300 | 5.50 | 327 |
| Cell 1-2 | 12/02/15 | 2 - 3 | 3.32 | 511 | <0.293 | 18.7 | 6.84 | 17,700 | 10.5 | 1,630 |
| Cell 1-3 | 12/02/15 | 2 - 3 | 6.24 | 582 | <0.323 | 16.8 | 5.27 | 11,500 | 6.18 | 386 |
| Cell 1-4 | 12/02/15 | 2 - 3 | 4.13 | 157 | <0.331 | 21.0 | 6.88 | 19,200 | 9.67 | 922 |

| Sample | Date | Depth (Feet) | Mercury | Selenium | Silver | Zinc |
|--------------------------------|----------|--------------|-----------------|---------------|---------------|-------------|
| Mean Background Concentration: | | | <0.019 | 0.579 | <0.098 | 10.35 |
| Reporting Limit (PQL) | | | <0.039 | 0.494 | <0.198 | 2.48 |
| PQL (RL) | | | 0.0373 - 0.0406 | 0.491 - 0.497 | 0.197 - 0.199 | 2.46 - 2.49 |
| Cell 1-1 | 12/02/15 | 2 - 3 | <0.0396 | 0.887 | <0.198 | 25.9 |
| Cell 1-2 | 12/02/15 | 2 - 3 | <0.0370 | 1.38 | <0.195 | 36.4 |
| Cell 1-3 | 12/02/15 | 2 - 3 | <0.0401 | 0.865 | <0.216 | 24.4 |
| Cell 1-4 | 12/02/15 | 2 - 3 | <0.0421 | 1.70 | <0.221 | 39.7 |

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligram per Kilograms (mg/Kg).

1. TRPH - Total Recoverable Hydrocarbons, Method 418.1

2. Mean Background Concentration: for < (less than) values, 1/2 of the detection value was used for calculation.

3. Reporting Limit Value (PQL): for < (less than) values, the two RL values were used to calculate the RL value

Table 3a. Cell 1 Buffer Resample for Volatile, Semi-Volatile and PCB

| Sample | Date | Depth feet | Benzene | Toluene | Carbon tetrachloride | 1,2-Dichloro ethane | 1,1-Dichloro ethylene | Tetrachloro ethylene | Trichloro ethylene | Ethyl benzene | Total Xylenes | Methylene chloride |
|--------------------------------|----------|------------|-------------------|-------------------|----------------------|---------------------|-----------------------|----------------------|--------------------|-------------------|-------------------|--------------------|
| Mean Background Concentration: | | | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 |
| Reporting Limit (PQL) | | | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 |
| PQL (RL) range | | | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 |
| Cell 1-1 | 12/02/15 | 2 - 3 | <0.00550 | <0.00550 | <0.00550 | <0.00550 | <0.00550 | <0.00550 | <0.00550 | <0.00550 | <0.00550 | <0.00550 |
| Cell 1-2 | 12/02/15 | 2 - 3 | <0.00524 | <0.00524 | <0.00524 | <0.00524 | <0.00524 | <0.00524 | <0.00524 | <0.00524 | <0.00524 | <0.00524 |
| Cell 1-3 | 12/02/15 | 2 - 3 | <0.00568 | <0.00568 | <0.00568 | <0.00568 | <0.00568 | <0.00568 | <0.00568 | <0.00568 | <0.00568 | <0.00568 |
| Cell 1-4 | 12/02/15 | 2 - 3 | <0.00573 | <0.00573 | <0.00573 | <0.00573 | <0.00573 | <0.00573 | <0.00573 | <0.00573 | <0.00573 | <0.00573 |

| Sample | Date | Depth feet | Chloroform | 1,1-Dichloro ethane | Ethylene bromide | 1,1,1-Trichloro ethane | 1,1,2-Trichloro ethane | 1,1,2,2-Tetrachloroethane | Vinyl chloride |
|--------------------------------|----------|------------|-------------------|---------------------|-------------------|------------------------|------------------------|---------------------------|-------------------|
| Mean Background Concentration: | | | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 |
| Reporting Limit (PQL) | | | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 |
| PQL (RL) range | | | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 |
| Cell 1-1 | 12/02/15 | 2 - 3 | <0.00550 | <0.00550 | <0.00550 | <0.00550 | <0.00550 | <0.00550 | <0.00550 |
| Cell 1-2 | 12/02/15 | 2 - 3 | <0.00524 | <0.00524 | <0.00524 | <0.00524 | <0.00524 | <0.00524 | <0.00524 |
| Cell 1-3 | 12/02/15 | 2 - 3 | <0.00568 | <0.00568 | <0.00568 | <0.00568 | <0.00568 | <0.00568 | <0.00568 |
| Cell 1-4 | 12/02/15 | 2 - 3 | <0.00573 | <0.00573 | <0.00573 | <0.00573 | <0.00573 | <0.00573 | <0.00573 |

| Sample | Date | Depth feet | 1-Methylnaphthalene | 2-Methyl naphthalene | Naphthalene | Benzo[a] pyrene | 2,3,4,6-Tetrachloro phenol | 2,4,5-Trichloro phenol | 2,4,6-Trichloro phenol | 2,4-Dichloro phenol | 2,4-Dimethyl phenol | 2,4-Dinitro phenol | 2,6-Dichloro phenol |
|--------------------------------|----------|------------|---------------------|----------------------|-----------------|-----------------|----------------------------|------------------------|------------------------|---------------------|---------------------|--------------------|---------------------|
| Mean Background Concentration: | | | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 |
| Reporting Limit (PQL) | | | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.133 | <0.0267 |
| PQL (RL) range | | | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.132 - 0.133 | 0.0266 - 0.0268 | 0.0266 - 0.0268 |
| Cell 1-1 | 12/02/15 | 2 - 3 | <0.0302 | <0.0302 | <0.0302 | <0.0302 | <0.0302 | <0.0302 | <0.0302 | <0.0302 | <0.0302 | <0.150 | <0.0302 |
| Cell 1-2 | 12/02/15 | 2 - 3 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.139 | <0.0281 |
| Cell 1-3 | 12/02/15 | 2 - 3 | <0.0295 | <0.0295 | <0.0295 | <0.0295 | <0.0295 | <0.0295 | <0.0295 | <0.0295 | <0.0295 | <0.146 | <0.0295 |
| Cell 1-4 | 12/02/15 | 2 - 3 | <0.0302 | <0.0302 | <0.0302 | <0.0302 | <0.0302 | <0.0302 | <0.0302 | <0.0302 | <0.0302 | <0.150 | <0.0302 |

| Sample | Date | Depth feet | 2-Chloro phenol | 2-Methylphenol | 2-Nitrophenol | 4,6-Dinitro-2-methyl phenol | 4-Chloro-3-methyl phenol | 4-Methyl phenol | 4-Nitro phenol | Pentachloro phenol | Phenol | Total Phenol |
|--------------------------------|----------|------------|-----------------|-----------------|-----------------|-----------------------------|--------------------------|-----------------|----------------|--------------------|-----------------|-----------------|
| Mean Background Concentration: | | | <0.0134 | <0.0134 | <0.0134 | <0.031 | <0.034 | <0.0134 | <0.0663 | <0.0134 | <0.0134 | <0.0134 |
| Reporting Limit (PQL) | | | <0.0267 | <0.0267 | <0.0267 | 0.0662 | <0.0267 | <0.0267 | <0.133 | <0.0267 | <0.0267 | <0.0267 |
| PQL (RL) range | | | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0659 - 0.0666 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.132 - 0.133 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 |
| Cell 1-1 | 12/02/15 | 2 - 3 | <0.0302 | <0.0302 | <0.0302 | <0.0750 | <0.0302 | <0.0302 | <0.150 | <0.0302 | <0.0302 | <0.0302 |
| Cell 1-2 | 12/02/15 | 2 - 3 | <0.0281 | <0.0281 | <0.0281 | <0.0697 | <0.0281 | <0.0281 | <0.139 | <0.0281 | <0.0281 | <0.0281 |
| Cell 1-3 | 12/02/15 | 2 - 3 | <0.0295 | <0.0295 | <0.0295 | <0.0731 | <0.0295 | <0.0295 | <0.146 | <0.0295 | <0.0295 | <0.0295 |
| Cell 1-4 | 12/02/15 | 2 - 3 | <0.0302 | <0.0302 | <0.0302 | <0.0749 | <0.0302 | <0.0302 | <0.150 | <0.0302 | <0.0302 | <0.0302 |

| Sample | Date | Depth feet | Aroclor 1016 | Aroclor 1221 | Aroclor 1232 | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 |
|--------------------------------|----------|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Mean Background Concentration: | | | <0.0167 | <0.0167 | <0.0167 | <0.0167 | <0.0167 | <0.0167 | <0.0167 |
| Reporting Limit (PQL) | | | <0.0335 | <0.0335 | <0.0335 | <0.0335 | <0.0335 | <0.0335 | <0.0335 |
| PQL (RL) range | | | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 |
| Cell 1-1 | 12/02/15 | 2 - 3 | <0.0379 | <0.0379 | <0.0379 | <0.0379 | <0.0379 | <0.0379 | <0.0379 |
| Cell 1-2 | 12/02/15 | 2 - 3 | <0.0352 | <0.0352 | <0.0352 | <0.0352 | <0.0352 | <0.0352 | <0.0352 |
| Cell 1-3 | 12/02/15 | 2 - 3 | <0.0369 | <0.0369 | <0.0369 | <0.0369 | <0.0369 | <0.0369 | <0.0369 |
| Cell 1-4 | 12/02/15 | 2 - 3 | <0.0378 | <0.0378 | <0.0378 | <0.0378 | <0.0378 | <0.0378 | <0.0378 |

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas

results are reported in milligram per Kilogram (mg/Kg).

.. Mean Background Concentration: for < (less than) values, 1/2 of the detection value was used for calculation.

.. Reporting Limit Value (PQL): for < (less than) values, the two RL values were used to calculate the RL value

Table 2b. Cell 2 Buffer Resample for Inorganic Parameters and TRPH

| Sample | Date | Depth (Feet) | TRPH | Cyanide | Chloride | Fluoride | Nitrate-N | Sulfate | pH |
|--------------------------------|----------|--------------|-------------|---------------|-------------|-------------|-------------|-------------|------|
| Mean Background Concentration: | | | <4.89 | <0.22 | <2.52 | <0.83 | <2.52 | <8.5 | 7.6 |
| Reporting Limit (PQL) | | | <9.78 | <0.439 | <5.04 | <1.01 | <5.04 | <10.1 | |
| PQL Range (RL) | | | 9.55 - 10.0 | 0.428 - 0.450 | 5.02 - 5.06 | 1.00 - 1.01 | 5.02 - 5.06 | 10.0 - 10.1 | |
| Cell 2-1 | 12/02/15 | 2 - 3 | <10.7 | <0.545 | 249 | 13.7 | <5.55 | 157 | 8.92 |
| Cell 2-2 | 12/02/15 | 2 - 3 | <10.8 | <0.524 | 486 | 8.34 | <5.16 | 402 | 8.94 |
| Cell 2-3 | 12/02/15 | 2 - 3 | <10.3 | <0.501 | 130 | 1.72 | <4.97 | 324 | 9.08 |
| Cell 2-4 | 12/02/15 | 2 - 3 | <12.2 | <0.618 | 10.6 | 11.7 | <6.09 | 111 | 9.30 |

| Sample | Date | Depth (Feet) | Arsenic | Barium | Cadmium | Chromium | Copper | Iron | Lead | Manganese |
|--------------------------------|----------|--------------|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| Mean Background Concentration: | | | 1.63 | 21.0 | <0.148 | 4.81 | 1.45 | 5,380 | 2.87 | 48.0 |
| Reporting Limit (PQL) | | | 0.99 | 1.98 | <0.297 | 1.98 | 1.98 | 61.8 | 0.297 | 1.98 |
| PQL (RL) | | | 0.983 - 0.995 | 1.97 - 1.99 | 0.298 - 0.295 | 1.97 - 1.99 | 1.97 - 1.99 | 61.4 - 62.2 | 0.295 - 0.298 | 1.97 - 1.99 |
| Cell 2-1 | 12/02/15 | 2 - 3 | 2.70 | 109 | <0.261 | 7.87 | 3.45 | 5,380 | 3.32 | 104 |
| Cell 2-2 | 12/02/15 | 2 - 3 | 1.79 | 52.1 | <0.307 | 8.05 | 2.02 | 7,040 | 2.97 | 59.8 |
| Cell 2-3 | 12/02/15 | 2 - 3 | 1.60 | 44.4 | <0.279 | 7.35 | 2.08 | 6,530 | 3.06 | 65.9 |
| Cell 2-4 | 12/02/15 | 2 - 3 | 3.60 | 1,260 | <0.345 | 7.17 | 4.63 | 5,810 | 2.93 | 220 |

| Sample | Date | Depth (Feet) | Mercury | Selenium | Silver | Zinc |
|--------------------------------|----------|--------------|-----------------|---------------|---------------|-------------|
| Mean Background Concentration: | | | <0.019 | 0.579 | <0.098 | 10.35 |
| Reporting Limit (PQL) | | | <0.039 | 0.494 | <0.198 | 2.48 |
| PQL (RL) | | | 0.0373 - 0.0406 | 0.491 - 0.497 | 0.197 - 0.199 | 2.46 - 2.49 |
| Cell 2-1 | 12/02/15 | 2 - 3 | <0.0407 | 0.487 | <0.174 | 14.4 |
| Cell 2-2 | 12/02/15 | 2 - 3 | <0.0376 | 0.374 | <0.205 | 14.7 |
| Cell 2-3 | 12/02/15 | 2 - 3 | <0.0354 | 0.378 | <0.186 | 13.4 |
| Cell 2-4 | 12/02/15 | 2 - 3 | <0.0474 | 0.645 | <0.230 | 11.8 |

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligram per Kilograms (mg/Kg).

1. TRPH - Total Recoverable Hydrocarbons, Method 418.1

2. Mean Background Concentration: for < (less than) values, 1/2 of the detection value was used for calculation.

3. Reporting Limit Value (PQL): for < (less than) values, the two RL values were used to calculate the RL value

Table 3b. Cell 2 Buffer Resample for Volatile, Semi-Volatile and PCB

| Sample | Date | Depth feet | Benzene | Toluene | Carbon tetra chloride | 1,2-Dichloro ethane | 1,1-Dichloro ethylene | Tetrachloro ethylene | Trichloro ethylene | Ethyl benzene | Total Xylenes | Methylene chloride |
|--------------------------------|-------------------|------------|-------------------|---------|-----------------------|---------------------|-----------------------|----------------------|--------------------|-------------------|-------------------|--------------------|
| Mean Background Concentration: | <0.00239 | | <0.00239 | | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 |
| Reporting Limit (PQL) | <0.00479 | | <0.00479 | | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 |
| PQL (RL) range | 0.00450 - 0.00507 | | 0.00450 - 0.00507 | | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 |
| Cell 2-1 | 12/02/15 | 2 - 3 | <0.00528 | | <0.00528 | <0.00528 | <0.00528 | <0.00528 | <0.00528 | <0.00528 | <0.00528 | <0.00528 |
| Cell 2-2 | 12/02/15 | 2 - 3 | <0.00516 | | <0.00516 | <0.00516 | <0.00516 | <0.00516 | <0.00516 | <0.00516 | <0.00516 | <0.00516 |
| Cell 2-3 | 12/02/15 | 2 - 3 | <0.00494 | | <0.00494 | <0.00494 | <0.00494 | <0.00494 | <0.00494 | <0.00494 | <0.00494 | <0.00494 |
| Cell 2-4 | 12/02/15 | 2 - 3 | <0.00579 | | <0.00579 | <0.00579 | <0.00579 | <0.00579 | <0.00579 | <0.00579 | <0.00579 | <0.00579 |

| Sample | Date | Depth feet | Chloroform | 1,1-Dichloro ethane | Ethylene bromide | 1,1,1-Trichloro ethane | 1,1,2-Trichloro ethane | 1,1,2,2-Tetrachloroethane | Vinyl chloride |
|--------------------------------|-------------------|------------|-------------------|---------------------|-------------------|------------------------|------------------------|---------------------------|-------------------|
| Mean Background Concentration: | <0.00239 | | <0.00239 | | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 |
| Reporting Limit (PQL) | <0.00479 | | <0.00479 | | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 |
| PQL (RL) range | 0.00450 - 0.00507 | | 0.00450 - 0.00507 | | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 |
| Cell 2-1 | 12/02/15 | 2 - 3 | <0.00528 | | <0.00528 | <0.00528 | <0.00528 | <0.00528 | <0.00528 |
| Cell 2-2 | 12/02/15 | 2 - 3 | <0.00516 | | <0.00516 | <0.00516 | <0.00516 | <0.00516 | <0.00516 |
| Cell 2-3 | 12/02/15 | 2 - 3 | <0.00494 | | <0.00494 | <0.00494 | <0.00494 | <0.00494 | <0.00494 |
| Cell 2-4 | 12/02/15 | 2 - 3 | <0.00579 | | <0.00579 | <0.00579 | <0.00579 | <0.00579 | <0.00579 |

| Sample | Date | Depth feet | 1-Methylnaphthalene | 2-Methyl naphthalene | Naphthalene | Benzo[a] pyrene | 2,3,4,6-Tetrachloro phenol | 2,4,5-Trichloro phenol | 2,4,6-Trichloro phenol | 2,4-Dichloro phenol | 2,4-Dimethyl phenol | 2,4-Dinitro phenol | 2,6-Dichloro phenol |
|--------------------------------|-----------------|------------|---------------------|----------------------|-----------------|-----------------|----------------------------|------------------------|------------------------|---------------------|---------------------|--------------------|---------------------|
| Mean Background Concentration: | <0.0134 | | <0.0134 | | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 |
| Reporting Limit (PQL) | <0.0267 | | <0.0267 | | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.133 | <0.0267 |
| PQL (RL) range | 0.0266 - 0.0268 | | 0.0266 - 0.0268 | | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.132 - 0.133 | 0.0266 - 0.0268 |
| Cell 2-1 | 12/02/15 | 2 - 3 | <0.0284 | | <0.0284 | <0.0284 | <0.0284 | <0.0284 | <0.0284 | <0.0284 | <0.0284 | <0.141 | <0.0284 |
| Cell 2-2 | 12/02/15 | 2 - 3 | <0.0287 | | <0.0287 | <0.0287 | <0.0287 | <0.0287 | <0.0287 | <0.0287 | <0.0287 | <0.142 | <0.0287 |
| Cell 2-3 | 12/02/15 | 2 - 3 | <0.0274 | | <0.0274 | <0.0274 | <0.0274 | <0.0274 | <0.0274 | <0.0274 | <0.0274 | <0.136 | <0.0274 |
| Cell 2-4 | 12/02/15 | 2 - 3 | <0.0321 | | <0.0321 | <0.0321 | <0.0321 | <0.0321 | <0.0321 | <0.0321 | <0.0321 | <0.159 | <0.0321 |

| Sample | Date | Depth feet | 2-Chloro phenol | 2-Methylphenol | 2-Nitrophenol | 4,6-Dinitro-2-methyl phenol | 4-Chloro-3-methyl phenol | 4-Methyl phenol | 4-Nitro phenol | Pentachloro phenol | Phenol | Total Phenol |
|--------------------------------|-----------------|------------|-----------------|----------------|-----------------|-----------------------------|--------------------------|-----------------|----------------|--------------------|-----------------|-----------------|
| Mean Background Concentration: | <0.0134 | | <0.0134 | | <0.0134 | <0.0331 | <0.0134 | <0.0134 | <0.0663 | <0.0134 | <0.0134 | <0.0134 |
| Reporting Limit (PQL) | <0.0267 | | <0.0267 | | <0.0267 | 0.0662 | <0.0267 | <0.0267 | <0.133 | <0.0267 | <0.0267 | <0.0267 |
| PQL (RL) range | 0.0266 - 0.0268 | | 0.0266 - 0.0268 | | 0.0266 - 0.0268 | 0.0659 - 0.0666 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.132 - 0.133 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 |
| Cell 2-1 | 12/02/15 | 2 - 3 | <0.0284 | | <0.0284 | <0.0284 | <0.0704 | <0.0284 | <0.0284 | <0.141 | <0.0284 | <0.0284 |
| Cell 2-2 | 12/02/15 | 2 - 3 | <0.0287 | | <0.0287 | <0.0287 | <0.0711 | <0.0287 | <0.0287 | <0.142 | <0.0287 | <0.0287 |
| Cell 2-3 | 12/02/15 | 2 - 3 | <0.0274 | | <0.0274 | <0.0274 | <0.0680 | <0.0274 | <0.0274 | <0.136 | <0.0274 | <0.0274 |
| Cell 2-4 | 12/02/15 | 2 - 3 | <0.0321 | | <0.0321 | <0.0795 | <0.0321 | <0.0321 | <0.159 | <0.0321 | <0.0321 | <0.0321 |

| Sample | Date | Depth feet | Aroclor 1016 | Aroclor 1221 | Aroclor 1232 | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 |
|--------------------------------|-----------------|------------|-----------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Mean Background Concentration: | <0.0167 | | <0.0167 | | <0.0167 | <0.0167 | <0.0167 | <0.0167 | <0.0167 |
| Reporting Limit (PQL) | <0.0335 | | <0.0335 | | <0.0335 | <0.0335 | <0.0335 | <0.0335 | <0.0335 |
| PQL (RL) range | 0.0333 - 0.0336 | | 0.0333 - 0.0336 | | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 |
| Cell 2-1 | 12/02/15 | 2 - 3 | <0.0356 | | <0.0356 | <0.0356 | <0.0356 | <0.0356 | <0.0356 |
| Cell 2-2 | 12/02/15 | 2 - 3 | <0.0359 | | <0.0359 | <0.0359 | <0.0359 | <0.0359 | <0.0359 |
| Cell 2-3 | 12/02/15 | 2 - 3 | <0.0344 | | <0.0344 | <0.0344 | <0.0344 | <0.0344 | <0.0344 |
| Cell 2-4 | 12/02/15 | 2 - 3 | <0.0402 | | <0.0402 | <0.0402 | <0.0402 | <0.0402 | <0.0402 |

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligram per Kilograms (mg/Kg).

Mean Background Concentration: for < (less than) values, 1/2 of the detection value was used for calculation.

Reporting Limit Value (PQL): for < (less than) values, the two RL values were used to calculate the RL value.

Table 2c. Cell 3 Buffer Resample for Inorganic Parameters and TRPH

| Sample | Date | Depth (Feet) | TRPH | Cyanide | Chloride | Fluoride | Nitrate-N | Sulfate | pH |
|--------------------------------|----------|--------------|-------------|---------------|-------------|-------------|-------------|-------------|------|
| Mean Background Concentration: | | | <4.89 | <0.22 | <2.52 | <0.83 | <2.52 | <8.5 | 7.6 |
| Reporting Limit (PQL) | | | <9.78 | <0.439 | <5.04 | <1.01 | <5.04 | <10.1 | |
| PQL Range (RL) | | | 9.55 - 10.0 | 0.428 - 0.450 | 5.02 - 5.06 | 1.00 - 1.01 | 5.02 - 5.06 | 10.0 - 10.1 | |
| Cell 3-1 | 12/02/15 | 2 - 3 | <11.3 | <0.560 | 790 | 3.33 | <5.51 | 258 | 7.93 |
| Cell 3-2 | 12/02/15 | 2 - 3 | <11.2 | <0.553 | 958 | 3.70 | <5.47 | 244 | 7.96 |
| Cell 3-3 | 12/02/15 | 2 - 3 | <10.7 | <0.547 | 701 | 2.04 | <5.03 | 44.9 | 7.64 |
| Cell 3-4 | 12/02/15 | 2 - 3 | <11.9 | <0.608 | 31.5 | 17.2 | <5.95 | 241 | 8.41 |

| Sample | Date | Depth (Feet) | Arsenic | Barium | Cadmium | Chromium | Copper | Iron | Lead | Manganese |
|--------------------------------|----------|--------------|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| Mean Background Concentration: | | | 1.63 | 21.0 | <0.148 | 4.81 | 1.45 | 5,380 | 2.87 | 48.0 |
| Reporting Limit (PQL) | | | 0.99 | 1.98 | <0.297 | 1.98 | 1.98 | 61.8 | 0.297 | 1.98 |
| PQL (RL) | | | 0.983 - 0.995 | 1.97 - 1.99 | 0.298 - 0.295 | 1.97 - 1.99 | 1.97 - 1.99 | 61.4 - 62.2 | 0.295 - 0.298 | 1.97 - 1.99 |
| Cell 3-1 | 12/02/15 | 2 - 3 | 3.19 | 1,110 | <0.292 | 6.93 | 3.46 | 6,250 | 3.13 | 168 |
| Cell 3-2 | 12/02/15 | 2 - 3 | 4.19 | 1,100 | <0.325 | 12.7 | 5.38 | 10,900 | 5.17 | 171 |
| Cell 3-3 | 12/02/15 | 2 - 3 | 1.89 | 63.9 | <0.288 | 12.5 | 2.28 | 9,770 | 5.18 | 57.4 |
| Cell 3-4 | 12/02/15 | 2 - 3 | 8.35 | 1,910 | <0.299 | 25.0 | 9.13 | 20,300 | 8.87 | 190 |

| Sample | Date | Depth (Feet) | Mercury | Selenium | Silver | Zinc |
|--------------------------------|----------|--------------|-----------------|---------------|---------------|-------------|
| Mean Background Concentration: | | | <0.019 | 0.579 | <0.098 | 10.35 |
| Reporting Limit (PQL) | | | <0.039 | 0.494 | <0.198 | 2.48 |
| PQL (RL) | | | 0.0373 - 0.0406 | 0.491 - 0.497 | 0.197 - 0.199 | 2.46 - 2.49 |
| Cell 3-1 | 12/02/15 | 2 - 3 | <0.0415 | 0.470 | <0.195 | 11.0 |
| Cell 3-2 | 12/02/15 | 2 - 3 | <0.0398 | 0.913 | <0.217 | 17.0 |
| Cell 3-3 | 12/02/15 | 2 - 3 | <0.0366 | 0.650 | <0.192 | 23.0 |
| Cell 3-4 | 12/02/15 | 2 - 3 | <0.0466 | 1.27 | <0.199 | 37.2 |

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligram per Kilograms (mg/Kg).

1. TRPH - Total Recoverable Hydrocarbons, Method 418.1

2. Mean Background Concentration: for < (less than) values, 1/2 of the detection value was used for calculation.

3. Reporting Limit Value (PQL): for < (less than) values, the two RL values were used to calculate the RL value

Table 3c. Cell 3 Buffer Resample for Volatile, Semi-Volatile and PCB

| Sample | Date | Depth feet | Benzene | Toluene | Carbon tetra chloride | 1,2-Dichloro ethane | 1,1-Dichloro ethylene | Tetrachloro ethylene | Trichloro ethylene | Ethyl benzene | Total Xylenes | Methylene chloride |
|--------------------------------|-------------------|------------|-------------------|----------|-----------------------|---------------------|-----------------------|----------------------|--------------------|-------------------|-------------------|--------------------|
| Mean Background Concentration: | <0.00239 | | <0.00239 | | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 |
| Reporting Limit (PQL) | <0.00479 | | <0.00479 | | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 |
| PQL (RL) range | 0.00450 - 0.00507 | | 0.00450 - 0.00507 | | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 |
| Cell 3-1 | 12/02/15 | 2 - 3 | <0.00559 | <0.00559 | <0.00559 | <0.00559 | <0.00559 | <0.00559 | <0.00559 | <0.00559 | <0.00559 | <0.00559 |
| Cell 3-2 | 12/02/15 | 2 - 3 | <0.00570 | <0.00570 | <0.00570 | <0.00570 | <0.00570 | <0.00570 | <0.00570 | <0.00570 | <0.00570 | <0.00570 |
| Cell 3-3 | 12/02/15 | 2 - 3 | <0.00499 | <0.00499 | <0.00499 | <0.00499 | <0.00499 | <0.00499 | <0.00499 | <0.00499 | <0.00499 | <0.00499 |
| Cell 3-4 | 12/02/15 | 2 - 3 | <0.00557 | <0.00557 | <0.00557 | <0.00557 | <0.00557 | <0.00557 | <0.00557 | <0.00557 | <0.00557 | <0.00557 |

| Sample | Date | Depth feet | Chloroform | 1,1-Dichloro ethane | Ethylene bromide | 1,1,1-Trichloro ethane | 1,1,2-Trichloro ethane | 1,1,2,2-Tetrachloroethane | Vinyl chloride |
|--------------------------------|-------------------|------------|-------------------|---------------------|-------------------|------------------------|------------------------|---------------------------|-------------------|
| Mean Background Concentration: | <0.00239 | | <0.00239 | | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 |
| Reporting Limit (PQL) | <0.00479 | | <0.00479 | | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 |
| PQL (RL) range | 0.00450 - 0.00507 | | 0.00450 - 0.00507 | | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 |
| Cell 3-1 | 12/02/15 | 2 - 3 | <0.00559 | <0.00559 | <0.00559 | <0.00559 | <0.00559 | <0.00559 | <0.00559 |
| Cell 3-2 | 12/02/15 | 2 - 3 | <0.00570 | <0.00570 | <0.00570 | <0.00570 | <0.00570 | <0.00570 | <0.00570 |
| Cell 3-3 | 12/02/15 | 2 - 3 | <0.00499 | <0.00499 | <0.00499 | <0.00499 | <0.00499 | <0.00499 | <0.00499 |
| Cell 3-4 | 12/02/15 | 2 - 3 | <0.00557 | <0.00557 | <0.00557 | <0.00557 | <0.00557 | <0.00557 | <0.00557 |

| Sample | Date | Depth feet | 1-Methylnaphthalene | 2-Methyl naphthalene | Naphthalene | Benzo[a] pyrene | 2,3,4,6-Tetrachloro phenol | 2,4,5-Trichloro phenol | 2,4,6-Trichloro phenol | 2,4-Dichloro phenol | 2,4-Dimethyl phenol | 2,4-Dinitro phenol | 2,6-Dichloro phenol |
|--------------------------------|-----------------|------------|---------------------|----------------------|-----------------|-----------------|----------------------------|------------------------|------------------------|---------------------|---------------------|--------------------|---------------------|
| Mean Background Concentration: | <0.0134 | | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 |
| Reporting Limit (PQL) | <0.0267 | | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.133 | <0.0267 |
| PQL (RL) range | 0.0266 - 0.0268 | | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.132 - 0.133 | 0.0266 - 0.0268 |
| Cell 3-1 | 12/02/15 | 2 - 3 | <0.0288 | <0.0288 | <0.0288 | <0.0288 | <0.0288 | <0.0288 | <0.0288 | <0.0288 | <0.0288 | <0.143 | <0.0288 |
| Cell 3-2 | 12/02/15 | 2 - 3 | <0.0304 | <0.0304 | <0.0304 | <0.0304 | <0.0304 | <0.0304 | <0.0304 | <0.0304 | <0.0304 | <0.151 | <0.0304 |
| Cell 3-3 | 12/02/15 | 2 - 3 | <0.0291 | <0.0291 | <0.0291 | <0.0291 | <0.0291 | <0.0291 | <0.0291 | <0.0291 | <0.0291 | <0.144 | <0.0291 |
| Cell 3-4 | 12/02/15 | 2 - 3 | <0.0317 | <0.0317 | <0.0317 | <0.0317 | <0.0317 | <0.0317 | <0.0317 | <0.0317 | <0.0317 | <0.157 | <0.0317 |

| Sample | Date | Depth feet | 2-Chloro phenol | 2-Methylphenol | 2-Nitrophenol | 4,6-Dinitro-2-methyl phenol | 4-Chloro-3-methyl phenol | 4-Methyl phenol | 4-Nitro phenol | Pentachloro phenol | Phenol | Total Phenol |
|--------------------------------|-----------------|------------|-----------------|-----------------|-----------------|-----------------------------|--------------------------|-----------------|----------------|--------------------|-----------------|-----------------|
| Mean Background Concentration: | <0.0134 | | <0.0134 | <0.0134 | <0.0134 | <0.0331 | <0.0134 | <0.0134 | <0.0663 | <0.0134 | <0.0134 | <0.0134 |
| Reporting Limit (PQL) | <0.0267 | | <0.0267 | <0.0267 | <0.0267 | 0.0662 | <0.0267 | <0.0267 | <0.133 | <0.0267 | <0.0267 | <0.0267 |
| PQL (RL) range | 0.0266 - 0.0268 | | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0659 - 0.0666 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.132 - 0.133 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 |
| Cell 3-1 | 12/02/15 | 2 - 3 | <0.0288 | <0.0288 | <0.0288 | <0.0715 | <0.0288 | <0.0288 | <0.143 | <0.0288 | <0.0288 | <0.0288 |
| Cell 3-2 | 12/02/15 | 2 - 3 | <0.0304 | <0.0304 | <0.0304 | <0.0755 | <0.0304 | <0.0304 | <0.151 | <0.0304 | <0.0304 | <0.0304 |
| Cell 3-3 | 12/02/15 | 2 - 3 | <0.0291 | <0.0291 | <0.0291 | <0.0721 | <0.0291 | <0.0291 | <0.144 | <0.0291 | <0.0291 | <0.0291 |
| Cell 3-4 | 12/02/15 | 2 - 3 | <0.0317 | <0.0317 | <0.0317 | <0.0786 | <0.0317 | <0.0317 | <0.157 | <0.0317 | <0.0317 | <0.0317 |

| Sample | Date | Depth feet | Aroclor 1016 | Aroclor 1221 | Aroclor 1232 | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 |
|--------------------------------|-----------------|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Mean Background Concentration: | <0.0167 | | <0.0167 | <0.0167 | <0.0167 | <0.0167 | <0.0167 | <0.0167 | <0.0167 |
| Reporting Limit (PQL) | <0.0335 | | <0.0335 | <0.0335 | <0.0335 | <0.0335 | <0.0335 | <0.0335 | <0.0335 |
| PQL (RL) range | 0.0333 - 0.0336 | | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 |
| Cell 3-1 | 12/02/15 | 2 - 3 | <0.0361 | <0.0361 | <0.0361 | <0.0361 | <0.0361 | <0.0361 | <0.0361 |
| Cell 3-2 | 12/02/15 | 2 - 3 | <0.0381 | <0.0381 | <0.0381 | <0.0381 | <0.0381 | <0.0381 | <0.0381 |
| Cell 3-3 | 12/02/15 | 2 - 3 | <0.0364 | <0.0364 | <0.0364 | <0.0364 | <0.0364 | <0.0364 | <0.0364 |
| Cell 3-4 | 12/02/15 | 2 - 3 | <0.0397 | <0.0397 | <0.0397 | <0.0397 | <0.0397 | <0.0397 | <0.0397 |

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligram per Kilograms (mg/Kg).

Mean Background Concentration: for < (less than) values, 1/2 of the detection value was used for calculation.

Reporting Limit Value (PQL): for < (less than) values, the two RL values were used to calculate the RL value

Table 2d. Cell 4 Buffer Resample for Inorganic Parameters and TRPH

| Sample | Date | Depth (Feet) | TRPH | Cyanide | Chloride | Fluoride | Nitrate-N | Sulfate | pH |
|--------------------------------|----------|--------------|-------------|---------------|-------------|-------------|-------------|-------------|------|
| Mean Background Concentration: | | | <4.89 | <0.22 | <2.52 | <0.83 | <2.52 | <8.5 | 7.6 |
| Reporting Limit (PQL) | | | <9.78 | <0.439 | <5.04 | <1.01 | <5.04 | <10.1 | |
| PQL Range (RL) | | | 9.55 - 10.0 | 0.428 - 0.450 | 5.02 - 5.06 | 1.00 - 1.01 | 5.02 - 5.06 | 10.0 - 10.1 | |
| Cell 4-1 | 12/02/15 | 2 - 3 | <10.6 | <0.518 | <5.03 | 2.25 | <5.03 | <10.1 | 8.49 |
| Cell 4-2 | 12/02/15 | 2 - 3 | <10.7 | <0.533 | <5.27 | 1.24 | <5.27 | <10.5 | 8.36 |
| Cell 4-3 | 12/02/15 | 2 - 3 | <10.8 | <0.541 | <4.84 | 0.998 | <4.84 | 19.5 | 8.57 |
| Cell 4-4 | 12/02/15 | 2 - 3 | <10.9 | <0.577 | 7.48 | 3.86 | <5.76 | 57.6 | 8.47 |

| Sample | Date | Depth (Feet) | Arsenic | Barium | Cadmium | Chromium | Copper | Iron | Lead | Manganese |
|--------------------------------|----------|--------------|---------------|-------------|---------------|-------------|-------------|-------------|---------------|-------------|
| Mean Background Concentration: | | | 1.63 | 21.0 | <0.148 | 4.81 | 1.45 | 5,380 | 2.87 | 48.0 |
| Reporting Limit (PQL) | | | 0.99 | 1.98 | <0.297 | 1.98 | 1.98 | 61.8 | 0.297 | 1.98 |
| PQL (RL) | | | 0.983 - 0.995 | 1.97 - 1.99 | 0.298 - 0.295 | 1.97 - 1.99 | 1.97 - 1.99 | 61.4 - 62.2 | 0.295 - 0.298 | 1.97 - 1.99 |
| Cell 4-1 | 12/02/15 | 2 - 3 | 1.96 | 78.9 | <0.264 | 6.93 | 2.48 | 6,320 | 3.09 | 61.8 |
| Cell 4-2 | 12/02/15 | 2 - 3 | 1.47 | 31.1 | <0.288 | 7.34 | 2.15 | 6,840 | 3.12 | 58.5 |
| Cell 4-3 | 12/02/15 | 2 - 3 | 1.91 | 88.5 | <0.286 | 4.78 | 1.72 | 4,310 | 2.32 | 44.0 |
| Cell 4-4 | 12/02/15 | 2 - 3 | 2.77 | 107 | <0.283 | 8.93 | 2.23 | 8,570 | 4.09 | 73.5 |

| Sample | Date | Depth (Feet) | Mercury | Selenium | Silver | Zinc |
|--------------------------------|----------|--------------|-----------------|---------------|---------------|-------------|
| Mean Background Concentration: | | | <0.019 | 0.579 | <0.098 | 10.35 |
| Reporting Limit (PQL) | | | <0.039 | 0.494 | <0.198 | 2.48 |
| PQL (RL) | | | 0.0373 - 0.0406 | 0.491 - 0.497 | 0.197 - 0.199 | 2.46 - 2.49 |
| Cell 4-1 | 12/02/15 | 2 - 3 | <0.0402 | 0.503 | <0.176 | 13.2 |
| Cell 4-2 | 12/02/15 | 2 - 3 | <0.0390 | 0.496 | <0.192 | 13.5 |
| Cell 4-3 | 12/02/15 | 2 - 3 | <0.0380 | 0.430 | <0.190 | 8.55 |
| Cell 4-4 | 12/02/15 | 2 - 3 | <0.0415 | 0.700 | <0.189 | 18.3 |

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligram per Kilograms (mg/Kg).

1. TRPH - Total Recoverable Hydrocarbons, Method 418.1

2. Mean Background Concentration: for < (less than) values, 1/2 of the detection value was used for calculation.

3. Reporting Limit Value (PQL): for < (less than) values, the two RL values were used to calculate the RL value

Table 3d. Cell 4 Buffer Resample for Volatile, Semi-Volatile and PCB

| Sample | Date | Depth feet | Benzene | Toluene | Carbon tetra chloride | 1,2-Dichloro ethane | 1,1-Dichloro ethylene | Tetrachloro ethylene | Trichloro ethylene | Ethyl benzene | Total Xylenes | Methylene chloride |
|--------------------------------|----------|------------|-------------------|-------------------|-----------------------|---------------------|-----------------------|----------------------|--------------------|-------------------|-------------------|--------------------|
| Mean Background Concentration: | | | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 |
| Reporting Limit (PQL) | | | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 |
| PQL (RL) range | | | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 |
| Cell 4-1 | 12/02/15 | 2 - 3 | <0.00539 | <0.00539 | <0.00539 | <0.00539 | <0.00539 | <0.00539 | <0.00539 | <0.00539 | <0.00539 | <0.00539 |
| Cell 4-2 | 12/02/15 | 2 - 3 | <0.00531 | <0.00531 | <0.00531 | <0.00531 | <0.00531 | <0.00531 | <0.00531 | <0.00531 | <0.00531 | <0.00531 |
| Cell 4-3 | 12/02/15 | 2 - 3 | <0.00541 | <0.00541 | <0.00541 | <0.00541 | <0.00541 | <0.00541 | <0.00541 | <0.00541 | <0.00541 | <0.00541 |
| Cell 4-4 | 12/02/15 | 2 - 3 | <0.00534 | <0.00534 | <0.00534 | <0.00534 | <0.00534 | <0.00534 | <0.00534 | <0.00534 | <0.00534 | <0.00534 |

| Sample | Date | Depth feet | Chloroform | 1,1-Dichloro ethane | Ethylene bromide | 1,1,1-Trichloro ethane | 1,1,2-Trichloro ethane | 1,1,2,2-Tetrachloroethane | Vinyl chloride |
|--------------------------------|----------|------------|-------------------|---------------------|-------------------|------------------------|------------------------|---------------------------|-------------------|
| Mean Background Concentration: | | | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 | <0.00239 |
| Reporting Limit (PQL) | | | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 | <0.00479 |
| PQL (RL) range | | | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 | 0.00450 - 0.00507 |
| Cell 4-1 | 12/02/15 | 2 - 3 | <0.00539 | <0.00539 | <0.00539 | <0.00539 | <0.00539 | <0.00539 | <0.00539 |
| Cell 4-2 | 12/02/15 | 2 - 3 | <0.00531 | <0.00531 | <0.00531 | <0.00531 | <0.00531 | <0.00531 | <0.00531 |
| Cell 4-3 | 12/02/15 | 2 - 3 | <0.00541 | <0.00541 | <0.00541 | <0.00541 | <0.00541 | <0.00541 | <0.00541 |
| Cell 4-4 | 12/02/15 | 2 - 3 | <0.00534 | <0.00534 | <0.00534 | <0.00534 | <0.00534 | <0.00534 | <0.00534 |

| Sample | Date | Depth feet | 1-Methylnaphthalene | 2-Methyl naphthalene | Naphthalene | Benzo[a] pyrene | 2,3,4,6-Tetrachloro phenol | 2,4,5-Trichloro phenol | 2,4-Dichloro phenol | 2,4-Dimethyl phenol | 2,4-Dinitro phenol | 2,6-Dichloro phenol |
|--------------------------------|----------|------------|---------------------|----------------------|-----------------|-----------------|----------------------------|------------------------|---------------------|---------------------|--------------------|---------------------|
| Mean Background Concentration: | | | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 | <0.0134 |
| Reporting Limit (PQL) | | | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.0267 | <0.133 | <0.0267 |
| PQL (RL) range | | | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.132 - 0.133 | 0.0266 - 0.0268 |
| Cell 4-1 | 12/02/15 | 2 - 3 | <0.0289 | <0.0289 | <0.0289 | <0.0289 | <0.0289 | <0.0289 | <0.0289 | <0.0289 | <0.143 | <0.0289 |
| Cell 4-2 | 12/02/15 | 2 - 3 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.140 | <0.0281 |
| Cell 4-3 | 12/02/15 | 2 - 3 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.0281 | <0.140 | <0.0281 |
| Cell 4-4 | 12/02/15 | 2 - 3 | <0.0305 | <0.0305 | <0.0305 | <0.0305 | <0.0305 | <0.0305 | <0.0305 | <0.0305 | <0.151 | <0.0305 |

| Sample | Date | Depth feet | 2-Chloro phenol | 2-Methylphenol | 2-Nitrophenol | 4,6-Dinitro-2-methylphenol | 4-Chloro-3-methylphenol | 4-Methyl phenol | 4-Nitro phenol | Pentachloro phenol | Phenol | Total Phenol |
|--------------------------------|----------|------------|-----------------|-----------------|-----------------|----------------------------|-------------------------|-----------------|----------------|--------------------|-----------------|-----------------|
| Mean Background Concentration: | | | <0.0134 | <0.0134 | <0.0134 | <0.0331 | <0.0134 | <0.0134 | <0.0663 | <0.0134 | <0.0134 | <0.0134 |
| Reporting Limit (PQL) | | | <0.0267 | 0.0267 | <0.0267 | 0.0662 | <0.0267 | <0.0267 | <0.133 | <0.0267 | <0.0267 | <0.0267 |
| PQL (RL) range | | | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0659 - 0.0666 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.132 - 0.133 | 0.0266 - 0.0268 | 0.0266 - 0.0268 | 0.0266 - 0.0268 |
| Cell 4-1 | 12/02/15 | 2 - 3 | <0.0289 | <0.0289 | <0.0289 | <0.0717 | <0.0289 | <0.0289 | <0.143 | <0.0289 | <0.0289 | <0.0289 |
| Cell 4-2 | 12/02/15 | 2 - 3 | <0.0281 | <0.0281 | <0.0281 | <0.0698 | <0.0281 | <0.0281 | <0.140 | <0.0281 | <0.0281 | <0.0281 |
| Cell 4-3 | 12/02/15 | 2 - 3 | <0.0281 | <0.0281 | <0.0281 | <0.0698 | <0.0281 | <0.0281 | <0.140 | <0.0281 | <0.0281 | <0.0281 |
| Cell 4-4 | 12/02/15 | 2 - 3 | <0.0305 | <0.0305 | <0.0305 | <0.0756 | <0.0305 | <0.0305 | <0.151 | <0.0305 | <0.0305 | <0.0305 |

| Sample | Date | Depth feet | Aroclor 1016 | Aroclor 1221 | Aroclor 1232 | Aroclor 1242 | Aroclor 1248 | Aroclor 1254 | Aroclor 1260 |
|--------------------------------|----------|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Mean Background Concentration: | | | <0.0167 | <0.0167 | <0.0167 | <0.0167 | <0.0167 | <0.0167 | <0.0167 |
| Reporting Limit (PQL) | | | <0.0335 | <0.0335 | <0.0335 | <0.0335 | <0.0335 | <0.0335 | <0.0335 |
| PQL (RL) range | | | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 | 0.0333 - 0.0336 |
| Cell 4-1 | 12/02/15 | 2 - 3 | <0.0362 | <0.0362 | <0.0362 | <0.0362 | <0.0362 | <0.0362 | <0.0362 |
| Cell 4-2 | 12/02/15 | 2 - 3 | <0.0353 | <0.0353 | <0.0353 | <0.0353 | <0.0353 | <0.0353 | <0.0353 |
| Cell 4-3 | 12/02/15 | 2 - 3 | <0.0352 | <0.0352 | <0.0352 | <0.0352 | <0.0352 | <0.0352 | <0.0352 |
| Cell 4-4 | 12/02/15 | 2 - 3 | <0.0382 | <0.0382 | <0.0382 | <0.0382 | <0.0382 | <0.0382 | <0.0382 |

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas

results are reported in milligram per Kilograms (mg/Kg).

- Mean Background Concentration: for < (less than) values, 1/2 of the detection value was used for calculation.

- Reporting Limit Value (PQL): for < (less than) values, the two RL values were used to calculate the RL value



December 15, 2015

Mark Larson
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456

Order No.: 1512052

RE: R360 Artesia Landfarm

Dear Mark Larson:

DHL Analytical, Inc. received 16 sample(s) on 12/4/2015 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-15-15



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CHAIN-OF-CUSTODY

Arson & Associates, Inc.
Established 1928

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 12/03/2015

PAGE 1 OF 2

PO #: LAB WORK ORDER #: 1512052

PROJECT LOCATION OR NAME: R3(40) Actesia Landform

LAI PROJECT #: 15-0121-01

COLLECTOR: Sarah Travis

| | | | | | | | |
|--|----------------------------|-----------------------------------|--------------------------|--|---------------------------------|---|--|
| ASSOCIATES, Inc. Environmental Consultants | | Midland, TX 79701 432-687-0901 | | PROJECT LOCATION OR NAME: R360 Artesia Landfarm LAI PROJECT #: 15-0121-01 | | COLLECTOR: Sarah Travis | |
| Data Reported to: | | | | | | | |
| RRP report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | S=SOIL W=WATER A=AIR | P=PAINT SL=SLUDGE OT=OTHER | # of Containers | PRESERVATION | | | |
| | | | | HCl | HNO ₃ | NaOH <input type="checkbox"/> | ICE |
| TIME ZONE: Time zone/State: NM | | | | | | | |
| Field Sample I.D. | Lab # | Date | Time | Matrix | # of Containers | ANALYSES | |
| Cell 1 DP-1 | 01 | 12/6/2 | 1:25 | S | 4 | BTEX <input type="checkbox"/> | BTX EX <input type="checkbox"/> |
| Cell 1 DP-2 | 012 | 1 | 1:35 | | 1 | TRPH 416 <input type="checkbox"/> | TRPH 416 <input type="checkbox"/> |
| Cell 1 DP-3 | 013 | | 1:45 | | 1 | DIESEL - MOD 80/15 <input type="checkbox"/> | DIESEL - MOD 80/15 <input checked="" type="checkbox"/> |
| Cell 1 DP-4 | 014 | | 2:00 | | 1 | VOC 6280 <input type="checkbox"/> | VOC 6280 <input type="checkbox"/> |
| Cell 2 DP-1 | 015 | | 2:40 | | 1 | SVOC 8270 <input type="checkbox"/> | SVOC 8270 <input type="checkbox"/> |
| Cell 2 DP-2 | 016 | | 2:50 | | 1 | PCDD/F 8282 <input type="checkbox"/> | PCDD/F 8282 <input type="checkbox"/> |
| Cell 2 DP-3 | 017 | | 3:00 | | 1 | PCBS 8282 <input type="checkbox"/> | PCBS 8282 <input type="checkbox"/> |
| Cell 2 DP-4 | 018 | | 3:10 | | 1 | TCLP - METALS (RCRA) <input type="checkbox"/> | TCLP - METALS (RCRA) <input type="checkbox"/> |
| Cell 3 DP-1 | 019 | | 3:40 | | 1 | TCLP - TOXIC D.W. 200/40 <input type="checkbox"/> | TCLP - TOXIC D.W. 200/40 <input type="checkbox"/> |
| Cell 3 DP-2 | 120 | | 3:50 | | 1 | TCLP - FLAMMABLE D <input type="checkbox"/> | TCLP - FLAMMABLE D <input type="checkbox"/> |
| Cell 3 DP-3 | 121 | | 4:00 | | 1 | TOTAL METALS <input type="checkbox"/> | TOTAL METALS <input type="checkbox"/> |
| Cell 3 DP-4 | 122 | | 4:10 | | 1 | PCDD/F % MOISTURE <input type="checkbox"/> | PCDD/F % MOISTURE <input type="checkbox"/> |
| Cell 4 DP-1 | 123 | | 4:40 | | 1 | PCDD/F EXPLOSIVES <input type="checkbox"/> | PCDD/F EXPLOSIVES <input type="checkbox"/> |
| Cell 4 DP-2 | 124 | | 4:50 | | 1 | PCDD/F CHLORIDES <input type="checkbox"/> | PCDD/F CHLORIDES <input type="checkbox"/> |
| Cell 4 DP-3 | 125 | | 5:00 | | 1 | PCDD/F ANIONIC D <input type="checkbox"/> | PCDD/F ANIONIC D <input type="checkbox"/> |
| TOTAL | | | | | | 12/10/15 | 12/10/15 |
| RELINQUISHED BY: (Signature) | DATE/TIME | | RECEIVED BY: (Signature) | | TURN AROUND TIME | | LABORATORY USE ONLY: |
| <i>W. Miller</i> | 12/10/15 8:21 am | | <i>Alonesta</i> | | NORMAL <input type="checkbox"/> | | RECEIVING TEMP 3, 2, 4, 3 THERM #: 78 |
| RELINQUISHED BY: (Signature) | DATE/TIME | | RECEIVED BY: (Signature) | | 1 DAY <input type="checkbox"/> | | CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input checked="" type="checkbox"/> NOT USED |
| <i>Alonesta</i> | 12/10/15 8:30 am | | <i>Sarah</i> | | 2 DAY <input type="checkbox"/> | | <input checked="" type="checkbox"/> CARRIER BILL <i>Alonesta</i> |
| RELINQUISHED BY: (Signature) | DATE/TIME | | RECEIVED BY: (Signature) | | OTHER <input type="checkbox"/> | | <input type="checkbox"/> HAND DELIVERED |

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

Data Reported to:

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 12/03/2015

PAGE 2 OF 2

PO #:

LAB WORK ORDER #: 1572052

PROJECT LOCATION OR NAME: R3600 Atsasaw Landfarm

LAI PROJECT #: 15-0121-01

COLLECTOR: Sarah Fawcett

AE

LSO

WWW.LSO.COM
Questions? Call 800-800-8984

Airbill No. **49614851**

| | |
|--|---|
| 1. To: Print Name (Person) J. Baile Phone (Important) (512) 228-8222 <small>Company Name</small> DHL Analytical <small>Street Address (No P.O. Box or P.O. Box Zip Code)*Deliveries</small> 2300 Double Creek Dr. <small>Suite / Floor</small> <small>City</small> Round Rock <small>State</small> TX <small>Zip</small> 78664 | 2. From: Print Name (Person) Phone (Important) 432-687-0001 <small>Company Name</small> JARSON & ASSOCIATES <small>Street Address</small> 507 NORTH MARIENTFELD <small>Suite / Floor</small> 205 <small>City</small> MIDLAND <small>State</small> TX <small>Zip</small> 79701 |
| 3. Service: Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online. | |
| <input checked="" type="checkbox"/> LSD Priority Overnight* <small>By 10:30 a.m. to most cities</small> | |
| <input type="checkbox"/> LSD Early Overnight* <small>By 8:30 a.m. select cities</small> | |
| <input type="checkbox"/> LSD Economy Next Day* <small>By 3 p.m. to most cities</small> | |
| <input type="checkbox"/> LSD 2nd Day* | |
| <input type="checkbox"/> Deliver Without Delivery Signature (See Limits of Liability below) | |
| <small>Release Signature</small>  | |
| <small>LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not to exceed \$25,000); 2) pay an additional fee; 3) document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR LSD EARLY OVERNIGHT SERVICE. PACKAGING PROVIDED BY LSD IS NOT INTENDED FOR USE ON LSD GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.</small> | |
| 4. Package: Weight: 45 <small>Your Company's Billing Reference Information</small> <small>Ship Date: (mm/dd/yy)</small> / / <small>Driver Number</small> LMT <small>Check here if LSD Supplies</small> <input type="checkbox"/> <small>are used with LSD Ground Service.</small> | |
| 5. Payment: <small>Pick-up Location</small> 121214 <small>Date:</small> 12/12/12 <small>Time:</small> 10:12 <small>City Code:</small> 1212 | |
| <small>Signature</small>  | |

DHL Analytical, Inc.

Sample Receipt Checklist

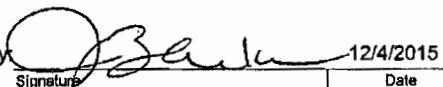
Client Name Larson & Associates

Date Received: 12/4/2015

Work Order Number 1512052

Received by JB

Checklist completed by

 JB 12/4/2015

Date

Reviewed by

SS

12/4/2015

Initials

Date

Carrier name LoneStar

| | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 3.2 °C / -1.3 |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH<2 acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # _____ |
| | Adjusted? _____ | Checked by _____ | |
| Water - pH>9 (S) or pH>12 (CN) acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> LOT # _____ |
| | Adjusted? _____ | Checked by _____ | |

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1512052

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis
Method SW7471B - Mercury Analysis
Method SW8260C - Volatiles Organics Analysis
Method SW8270D - Semivolatiles Organics Analysis (The compound 1-Methylnaphthalene is not NELCAC Certified)
Method E418.1 - Petroleum Hydrocarbons, TR Analysis (This parameter is not NELAC Certified)
Method SW8270D - PCBs Analysis (Calculation for PCB is not NELAC Certified)
Method SW9014 - Cyanide Analysis
Method E300 - Anions Analysis
Method SW9045D - pH of Soil Analysis
Method D2216 - Percent Moisture Analysis

LOG IN

The samples were received and log-in performed on 12/4/2015. A total of 16 samples were received and analyzed. The samples arrived in good condition and were properly packaged. Analysis for two samples were cancelled per the client's request on 12/4/2015.

VOLATILES ANALYSIS

As per the TCEQ-NELAP accreditation requirement the following must be noted: The TCEQ remediation division guidance on the collection of soil for VOC analysis recommends but does not require the use of Method 5035. For analyses reported to the Texas Railroad Commission, bulk sampling is allowed. NELAP requires a note that if 5035 sampling method for VOCs is not utilized, the results of samples collected in bulk containers for low level volatile components may be compromised. The client has been notified and has requested the Laboratory to proceed with analysis.

SEMIVOLATILES ANALYSIS

For Semivolatiles Analysis, the recovery of 4-Methylphenol for the Initial Calibration Verification (ICV-151208) was slightly below the method control limits specified in SW8270D (80-120% recovery). This is flagged accordingly in the QC Summary report. The number of target analytes outside of the method control limits for the ICV are less than 20% of the total number of compounds being reported; this is allowed in SW8260C specifications. This compound was within method control limits in the associated LCS; there is no adverse effect on the data. No further corrective action was taken.

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1512052

CASE NARRATIVE

For Semivolatiles Analysis, the recalculated concentration of Pentachlorophenol for the Low Calibration Point was above the method control limits (157.5% recovery and upper limit is 130%). The remaining calibration points were within method control limits. No further corrective action was taken.

METALS ANALYSIS

For Metals Analysis, the recoveries of Iron and Manganese for the Matrix Spike and Matrix Spike Duplicate (1512052-04 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits in the associated LCS. The reference sample selected for the Batch QC was from this workorder. No further corrective action was taken.

ANIONS ANALYSIS

For Anions Analysis, the recoveries of up to three anions for the Matrix Spike and Matrix Spike Duplicate (1512052-07, -14 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary Report. These anions were within method control limits in the associated LCS. The reference samples selected for the Batch QC was from this workorder. No further corrective action was taken.

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1512052

Work Order Sample Summary

| Lab Smp ID | Client Sample ID | Tag Number | Date Collected | Date Recvd |
|-------------------|-------------------------|-------------------|-----------------------|-------------------|
| 1512052-01 | Cell 1 DP-1 | | 12/02/15 01:25 PM | 12/4/2015 |
| 1512052-02 | Cell 1 DP-2 | | 12/02/15 01:35 PM | 12/4/2015 |
| 1512052-03 | Cell 1 DP-3 | | 12/02/15 01:45 PM | 12/4/2015 |
| 1512052-04 | Cell 1 DP-4 | | 12/02/15 02:00 PM | 12/4/2015 |
| 1512052-05 | Cell 2 DP-1 | | 12/02/15 02:40 PM | 12/4/2015 |
| 1512052-06 | Cell 2 DP-2 | | 12/02/15 02:50 PM | 12/4/2015 |
| 1512052-07 | Cell 2 DP-3 | | 12/02/15 03:00 PM | 12/4/2015 |
| 1512052-08 | Cell 2 DP-4 | | 12/02/15 03:10 PM | 12/4/2015 |
| 1512052-09 | Cell 3 DP-1 | | 12/02/15 03:40 PM | 12/4/2015 |
| 1512052-10 | Cell 3 DP-2 | | 12/02/15 03:50 PM | 12/4/2015 |
| 1512052-11 | Cell 3 DP-3 | | 12/02/15 04:00 PM | 12/4/2015 |
| 1512052-12 | Cell 3 DP-4 | | 12/02/15 04:10 PM | 12/4/2015 |
| 1512052-13 | Cell 4 DP-1 | | 12/02/15 04:40 PM | 12/4/2015 |
| 1512052-14 | Cell 4 DP-2 | | 12/02/15 04:50 PM | 12/4/2015 |
| 1512052-15 | Cell 4 DP-3 | | 12/02/15 05:00 PM | 12/4/2015 |
| 1512052-16 | Cell 4 DP-4 | | 12/02/15 05:10 PM | 12/4/2015 |

DHL Analytical, Inc.

15-Dec-15

Lab Order: 1512052
Client: Larson & Associates
Project: R360 Artesia Landfarm

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|--------------------------------|-------------------|----------|
| 1512052-01A | Cell 1 DP-1 | 12/02/15 01:25 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| 1512052-01B | Cell 1 DP-1 | 12/02/15 01:25 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 1 DP-1 | 12/02/15 01:25 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| | Cell 1 DP-1 | 12/02/15 01:25 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |
| 1512052-01C | Cell 1 DP-1 | 12/02/15 01:25 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 |
| | Cell 1 DP-1 | 12/02/15 01:25 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 |
| | Cell 1 DP-1 | 12/02/15 01:25 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 12/14/15 08:49 AM | 72702 |
| 1512052-01D | Cell 1 DP-1 | 12/02/15 01:25 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 |
| | Cell 1 DP-1 | 12/02/15 01:25 PM | Soil | D2216 | Moisture Preparation | 12/04/15 03:59 PM | 72571 |
| | Cell 1 DP-1 | 12/02/15 01:25 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| | Cell 1 DP-1 | 12/02/15 01:25 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| 1512052-02A | Cell 1 DP-2 | 12/02/15 01:35 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| 1512052-02B | Cell 1 DP-2 | 12/02/15 01:35 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 1 DP-2 | 12/02/15 01:35 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| | Cell 1 DP-2 | 12/02/15 01:35 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |
| 1512052-02C | Cell 1 DP-2 | 12/02/15 01:35 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 |
| | Cell 1 DP-2 | 12/02/15 01:35 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 |
| | Cell 1 DP-2 | 12/02/15 01:35 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 12/14/15 08:49 AM | 72702 |
| 1512052-02D | Cell 1 DP-2 | 12/02/15 01:35 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 |
| | Cell 1 DP-2 | 12/02/15 01:35 PM | Soil | D2216 | Moisture Preparation | 12/04/15 03:59 PM | 72571 |
| | Cell 1 DP-2 | 12/02/15 01:35 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| | Cell 1 DP-2 | 12/02/15 01:35 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| 1512052-03A | Cell 1 DP-3 | 12/02/15 01:45 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| 1512052-03B | Cell 1 DP-3 | 12/02/15 01:45 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 1 DP-3 | 12/02/15 01:45 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 1 DP-3 | 12/02/15 01:45 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| | Cell 1 DP-3 | 12/02/15 01:45 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |
| 1512052-03C | Cell 1 DP-3 | 12/02/15 01:45 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 |

DHL Analytical, Inc.

15-Dec-15

Lab Order: 1512052
Client: Larson & Associates
Project: R360 Artesia Landfarm

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|-------------------|-------------------|---------|--------------------------------|--------------------------------|-------------------|----------|
| 1512052-03C | Cell 1 DP-3 | 12/02/15 01:45 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 |
| | Cell 1 DP-3 | 12/02/15 01:45 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 12/14/15 08:49 AM | 72702 |
| 1512052-03D | Cell 1 DP-3 | 12/02/15 01:45 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 |
| | Cell 1 DP-3 | 12/02/15 01:45 PM | Soil | D2216 | Moisture Preparation | 12/04/15 03:59 PM | 72571 |
| 1512052-04A | Cell 1 DP-3 | 12/02/15 01:45 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| | Cell 1 DP-3 | 12/02/15 01:45 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| 1512052-04B | Cell 1 DP-4 | 12/02/15 02:00 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| 1512052-04B | Cell 1 DP-4 | 12/02/15 02:00 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 1 DP-4 | 12/02/15 02:00 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| 1512052-04C | Cell 1 DP-4 | 12/02/15 02:00 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| | Cell 1 DP-4 | 12/02/15 02:00 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |
| 1512052-04C | Cell 1 DP-4 | 12/02/15 02:00 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 |
| | Cell 1 DP-4 | 12/02/15 02:00 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 |
| 1512052-04D | Cell 1 DP-4 | 12/02/15 02:00 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 |
| | Cell 1 DP-4 | 12/02/15 02:00 PM | Soil | D2216 | Moisture Preparation | 12/04/15 03:59 PM | 72571 |
| 1512052-04D | Cell 1 DP-4 | 12/02/15 02:00 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| | Cell 1 DP-4 | 12/02/15 02:00 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| 1512052-05A | Cell 2 DP-1 | 12/02/15 02:40 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| 1512052-05B | Cell 2 DP-1 | 12/02/15 02:40 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| 1512052-05B | Cell 2 DP-1 | 12/02/15 02:40 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| | Cell 2 DP-1 | 12/02/15 02:40 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |
| 1512052-05C | Cell 2 DP-1 | 12/02/15 02:40 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 |
| | Cell 2 DP-1 | 12/02/15 02:40 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 |
| 1512052-05D | Cell 2 DP-1 | 12/02/15 02:40 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 |
| | Cell 2 DP-1 | 12/02/15 02:40 PM | Soil | D2216 | Moisture Preparation | 12/07/15 09:18 AM | 72579 |
| Cell 2 DP-1 | 12/02/15 02:40 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 | |

Lab Order: 1512052
Client: Larson & Associates
Project: R360 Artesia Landfarm

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|--------------------------------|-------------------|----------|
| 1512052-05D | Cell 2 DP-1 | 12/02/15 02:40 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| 1512052-06A | Cell 2 DP-2 | 12/02/15 02:50 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| 1512052-06B | Cell 2 DP-2 | 12/02/15 02:50 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 2 DP-2 | 12/02/15 02:50 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 2 DP-2 | 12/02/15 02:50 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| | Cell 2 DP-2 | 12/02/15 02:50 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |
| 1512052-06C | Cell 2 DP-2 | 12/02/15 02:50 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 |
| | Cell 2 DP-2 | 12/02/15 02:50 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 |
| | Cell 2 DP-2 | 12/02/15 02:50 PM | Soil | SW3550C | Soil Prep Sonication: TRPHI | 12/14/15 08:49 AM | 72702 |
| 1512052-06D | Cell 2 DP-2 | 12/02/15 02:50 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 |
| | Cell 2 DP-2 | 12/02/15 02:50 PM | Soil | D2216 | Moisture Preparation | 12/07/15 09:18 AM | 72579 |
| | Cell 2 DP-2 | 12/02/15 02:50 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| | Cell 2 DP-2 | 12/02/15 02:50 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| 1512052-07A | Cell 2 DP-3 | 12/02/15 03:00 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| 1512052-07B | Cell 2 DP-3 | 12/02/15 03:00 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 2 DP-3 | 12/02/15 03:00 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| | Cell 2 DP-3 | 12/02/15 03:00 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |
| 1512052-07C | Cell 2 DP-3 | 12/02/15 03:00 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 |
| | Cell 2 DP-3 | 12/02/15 03:00 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 |
| | Cell 2 DP-3 | 12/02/15 03:00 PM | Soil | SW3550C | Soil Prep Sonication: TRPHI | 12/14/15 08:49 AM | 72702 |
| 1512052-07D | Cell 2 DP-3 | 12/02/15 03:00 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 |
| | Cell 2 DP-3 | 12/02/15 03:00 PM | Soil | D2216 | Moisture Preparation | 12/07/15 09:18 AM | 72579 |
| | Cell 2 DP-3 | 12/02/15 03:00 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| | Cell 2 DP-3 | 12/02/15 03:00 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| 1512052-08A | Cell 2 DP-4 | 12/02/15 03:10 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| 1512052-08B | Cell 2 DP-4 | 12/02/15 03:10 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 2 DP-4 | 12/02/15 03:10 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| | Cell 2 DP-4 | 12/02/15 03:10 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |

| Lab Order: | 1512052 | Client: | Larson & Associates | Project: | R360 Artesia Landfarm | PREP DATES REPORT | | |
|-------------|------------------|-------------------|---------------------|-------------|--------------------------------|-------------------|----------|--|
| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID | |
| 1512052-08C | Cell 2 DP-4 | 12/02/15 03:10 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 | |
| | Cell 2 DP-4 | 12/02/15 03:10 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 | |
| | Cell 2 DP-4 | 12/02/15 03:10 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 12/14/15 08:49 AM | 72702 | |
| 1512052-08D | Cell 2 DP-4 | 12/02/15 03:10 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 | |
| | Cell 2 DP-4 | 12/02/15 03:10 PM | Soil | D2216 | Moisture Preparation | 12/07/15 09:18 AM | 72579 | |
| | Cell 2 DP-4 | 12/02/15 03:10 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 | |
| 1512052-09A | Cell 2 DP-4 | 12/02/15 03:10 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 | |
| | Cell 3 DP-1 | 12/02/15 03:40 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 | |
| | Cell 3 DP-1 | 12/02/15 03:40 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 | |
| 1512052-09B | Cell 3 DP-1 | 12/02/15 03:40 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 | |
| | Cell 3 DP-1 | 12/02/15 03:40 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 | |
| | Cell 3 DP-1 | 12/02/15 03:40 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 | |
| 1512052-09C | Cell 3 DP-1 | 12/02/15 03:40 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 | |
| | Cell 3 DP-1 | 12/02/15 03:40 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 | |
| | Cell 3 DP-1 | 12/02/15 03:40 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 12/14/15 08:49 AM | 72702 | |
| 1512052-09D | Cell 3 DP-1 | 12/02/15 03:40 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 | |
| | Cell 3 DP-1 | 12/02/15 03:40 PM | Soil | D2216 | Moisture Preparation | 12/07/15 09:18 AM | 72579 | |
| | Cell 3 DP-1 | 12/02/15 03:40 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 | |
| 1512052-10A | Cell 3 DP-1 | 12/02/15 03:40 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 | |
| | Cell 3 DP-2 | 12/02/15 03:50 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 | |
| | Cell 3 DP-2 | 12/02/15 03:50 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 | |
| 1512052-10B | Cell 3 DP-2 | 12/02/15 03:50 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 | |
| | Cell 3 DP-2 | 12/02/15 03:50 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 | |
| | Cell 3 DP-2 | 12/02/15 03:50 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 | |
| 1512052-10C | Cell 3 DP-2 | 12/02/15 03:50 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 | |
| | Cell 3 DP-2 | 12/02/15 03:50 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 | |
| | Cell 3 DP-2 | 12/02/15 03:50 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 12/14/15 08:49 AM | 72702 | |
| 1512052-10D | Cell 3 DP-2 | 12/02/15 03:50 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 | |

DHL Analytical, Inc.

15-Dec-15

Lab Order: 1512052
Client: Larson & Associates
Project: R360 Artesia Landfarm

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|--------------------------------|-------------------|----------|
| 1512052-10D | Cell 3 DP-2 | 12/02/15 03:50 PM | Soil | D2216 | Moisture Preparation | 12/07/15 09:18 AM | 72579 |
| | Cell 3 DP-2 | 12/02/15 03:50 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| | Cell 3 DP-2 | 12/02/15 03:50 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| 1512052-11A | Cell 3 DP-3 | 12/02/15 04:00 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| 1512052-11B | Cell 3 DP-3 | 12/02/15 04:00 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 3 DP-3 | 12/02/15 04:00 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 3 DP-3 | 12/02/15 04:00 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| 1512052-11C | Cell 3 DP-3 | 12/02/15 04:00 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |
| | Cell 3 DP-3 | 12/02/15 04:00 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 |
| | Cell 3 DP-3 | 12/02/15 04:00 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 |
| 1512052-11D | Cell 3 DP-3 | 12/02/15 04:00 PM | Soil | SW3550C | Soil Prep Sonication: TRP1I | 12/14/15 08:49 AM | 72702 |
| | Cell 3 DP-3 | 12/02/15 04:00 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 |
| | Cell 3 DP-3 | 12/02/15 04:00 PM | Soil | D2216 | Moisture Preparation | 12/07/15 09:18 AM | 72579 |
| 1512052-12A | Cell 3 DP-4 | 12/02/15 04:10 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| | Cell 3 DP-4 | 12/02/15 04:10 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 3 DP-4 | 12/02/15 04:10 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| 1512052-12B | Cell 3 DP-4 | 12/02/15 04:10 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |
| | Cell 3 DP-4 | 12/02/15 04:10 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 |
| | Cell 3 DP-4 | 12/02/15 04:10 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 |
| 1512052-12C | Cell 3 DP-4 | 12/02/15 04:10 PM | Soil | SW3550C | Soil Prep Sonication: TRP1I | 12/14/15 08:49 AM | 72702 |
| | Cell 3 DP-4 | 12/02/15 04:10 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 |
| | Cell 3 DP-4 | 12/02/15 04:10 PM | Soil | D2216 | Moisture Preparation | 12/07/15 09:18 AM | 72579 |
| 1512052-12D | Cell 3 DP-4 | 12/02/15 04:10 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| | Cell 3 DP-4 | 12/02/15 04:10 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| | Cell 3 DP-4 | 12/02/15 04:40 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| 1512052-13A | Cell 4 DP-1 | 12/02/15 04:40 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| 1512052-13B | Cell 4 DP-1 | 12/02/15 04:40 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |

DHL Analytical, Inc.

15-Dec-15

Lab Order: 1512052
Client: Larson & Associates
Project: R360 Artesia Landfarm

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|--------------------------------|-------------------|----------|
| 1512052-13B | Cell 4 DP-1 | 12/02/15 04:40 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| | Cell 4 DP-1 | 12/02/15 04:40 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |
| 1512052-13C | Cell 4 DP-1 | 12/02/15 04:40 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 |
| | Cell 4 DP-1 | 12/02/15 04:40 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 |
| | Cell 4 DP-1 | 12/02/15 04:40 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 12/14/15 08:49 AM | 72702 |
| 1512052-13D | Cell 4 DP-1 | 12/02/15 04:40 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 |
| | Cell 4 DP-1 | 12/02/15 04:40 PM | Soil | D2216 | Moisture Preparation | 12/07/15 09:18 AM | 72579 |
| | Cell 4 DP-1 | 12/02/15 04:40 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| | Cell 4 DP-1 | 12/02/15 04:40 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| 1512052-14A | Cell 4 DP-2 | 12/02/15 04:50 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| 1512052-14B | Cell 4 DP-2 | 12/02/15 04:50 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 4 DP-2 | 12/02/15 04:50 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| | Cell 4 DP-2 | 12/02/15 04:50 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |
| 1512052-14C | Cell 4 DP-2 | 12/02/15 04:50 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 |
| | Cell 4 DP-2 | 12/02/15 04:50 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 |
| | Cell 4 DP-2 | 12/02/15 04:50 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 12/14/15 08:49 AM | 72702 |
| 1512052-14D | Cell 4 DP-2 | 12/02/15 04:50 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 |
| | Cell 4 DP-2 | 12/02/15 04:50 PM | Soil | D2216 | Moisture Preparation | 12/07/15 09:18 AM | 72579 |
| | Cell 4 DP-2 | 12/02/15 04:50 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| | Cell 4 DP-2 | 12/02/15 04:50 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| 1512052-15A | Cell 4 DP-3 | 12/02/15 05:00 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| 1512052-15B | Cell 4 DP-3 | 12/02/15 05:00 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 4 DP-3 | 12/02/15 05:00 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| | Cell 4 DP-3 | 12/02/15 05:00 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |
| 1512052-15C | Cell 4 DP-3 | 12/02/15 05:00 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 |
| | Cell 4 DP-3 | 12/02/15 05:00 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 |
| | Cell 4 DP-3 | 12/02/15 05:00 PM | Soil | SW3550C | Soil Prep Sonication: TRPH | 12/14/15 08:49 AM | 72702 |
| 1512052-15D | Cell 4 DP-3 | 12/02/15 05:00 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 |

DHL Analytical, Inc.

15-Dec-15

Lab Order: 1512052
Client: Larson & Associates
Project: R360 Artesia Landfarm

PREP DATES REPORT

| Sample ID | Client Sample ID | Collection Date | Matrix | Test Number | Test Name | Prep Date | Batch ID |
|-------------|------------------|-------------------|--------|-------------|--------------------------------|-------------------|----------|
| 1512052-15D | Cell 4 DP-3 | 12/02/15 05:00 PM | Soil | D2216 | Moisture Preparation | 12/07/15 09:18 AM | 72579 |
| | Cell 4 DP-3 | 12/02/15 05:00 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| | Cell 4 DP-3 | 12/02/15 05:00 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| 1512052-16A | Cell 4 DP-4 | 12/02/15 05:10 PM | Soil | SW5030C | Purge and Trap Soils GC/MS | 12/07/15 09:49 AM | 72585 |
| 1512052-16B | Cell 4 DP-4 | 12/02/15 05:10 PM | Soil | E300 | Anion Prep | 12/07/15 02:59 PM | 72593 |
| | Cell 4 DP-4 | 12/02/15 05:10 PM | Soil | SW9010C | Cyanide Soil Prep | 12/09/15 09:32 AM | 72628 |
| | Cell 4 DP-4 | 12/02/15 05:10 PM | Soil | SW9045C | pH Preparation | 12/07/15 09:00 AM | 72575 |
| 1512052-16C | Cell 4 DP-4 | 12/02/15 05:10 PM | Soil | SW3550C | Soil Prep Sonication: BNA | 12/07/15 09:06 AM | 72576 |
| | Cell 4 DP-4 | 12/02/15 05:10 PM | Soil | SW3550C | Soil Prep Sonication: PCB | 12/07/15 09:16 AM | 72578 |
| | Cell 4 DP-4 | 12/02/15 05:10 PM | Soil | SW3550C | Soil Prep Sonication: TRPHI | 12/14/15 08:49 AM | 72702 |
| 1512052-16D | Cell 4 DP-4 | 12/02/15 05:10 PM | Soil | SW7471B | Mercury Soil Prep, Total | 12/09/15 08:30 AM | 72606 |
| | Cell 4 DP-4 | 12/02/15 05:10 PM | Soil | D2216 | Moisture Preparation | 12/07/15 09:18 AM | 72579 |
| | Cell 4 DP-4 | 12/02/15 05:10 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |
| | Cell 4 DP-4 | 12/02/15 05:10 PM | Soil | SW3050B | Soil Prep Total Metals: ICP-MS | 12/09/15 08:30 AM | 72605 |

DHL Analytical, Inc.

15-Dec-15

ANALYTICAL DATES REPORT

Lab Order: 1512052
Client: Larson & Associates
Project: R360 Artesia Landfarm

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|-------------------------------|----------|----------|-------------------|-------------------|
| 1512052-01A | Cell 1 DP-1 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 01:28 PM | GCMS1_151207A |
| 1512052-01B | Cell 1 DP-1 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/08/15 05:09 PM | IC2_151208B |
| | Cell 1 DP-1 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:23 PM | UV/VIS_2_151209A |
| | Cell 1 DP-1 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| 1512052-01C | Cell 1 DP-1 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 12:50 PM | GCMS8_151208A |
| | Cell 1 DP-1 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/08/15 08:57 PM | GCMS9_151208C |
| | Cell 1 DP-1 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| 1512052-01D | Cell 1 DP-1 | Soil | D2216 | Percent Moisture | 72571 | 1 | 12/07/15 08:00 AM | PMOIST_151204A |
| | Cell 1 DP-1 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 12:20 PM | CETAC2_HG_151209C |
| | Cell 1 DP-1 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 03:06 PM | ICP-MS4_151210A |
| | Cell 1 DP-1 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 01:28 PM | ICP-MS4_151210A |
| 1512052-02A | Cell 1 DP-2 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 01:59 PM | GCMS1_151207A |
| 1512052-02B | Cell 1 DP-2 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/08/15 05:24 PM | IC2_151208B |
| | Cell 1 DP-2 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:26 PM | UV/VIS_2_151209A |
| | Cell 1 DP-2 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| 1512052-02C | Cell 1 DP-2 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 01:22 PM | GCMS8_151208A |
| | Cell 1 DP-2 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/08/15 09:22 PM | GCMS9_151208C |
| | Cell 1 DP-2 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| 1512052-02D | Cell 1 DP-2 | Soil | D2216 | Percent Moisture | 72571 | 1 | 12/07/15 08:00 AM | PMOIST_151204A |
| | Cell 1 DP-2 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 12:22 PM | CETAC2_HG_151209C |
| | Cell 1 DP-2 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 03:08 PM | ICP-MS4_151210A |
| | Cell 1 DP-2 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 01:29 PM | ICP-MS4_151210A |
| 1512052-03A | Cell 1 DP-3 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 02:30 PM | GCMS1_151207A |
| 1512052-03B | Cell 1 DP-3 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/08/15 05:39 PM | IC2_151208B |
| | Cell 1 DP-3 | Soil | E300 | Anions by IC method - Soil | 72593 | 10 | 12/09/15 01:38 PM | IC2_151208B |
| | Cell 1 DP-3 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:26 PM | UV/VIS_2_151209A |
| | Cell 1 DP-3 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |

ANALYTICAL DATES REPORT

Lab Order: 1512052
Client: Larson & Associates
Project: R360 Artesia Landfarm

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|-------------------------------|----------|----------|-------------------|-------------------|
| 1512052-03C | Cell 1 DP-3 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 01:53 PM | GCMS8_151208A |
| | Cell 1 DP-3 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/08/15 09:47 PM | GCMS9_151208C |
| | Cell 1 DP-3 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| | Cell 1 DP-3 | Soil | D2216 | Percent Moisture | 72571 | 1 | 12/07/15 08:00 AM | PMOIST_151204A |
| | Cell 1 DP-3 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 12:24 PM | CETAC2_HG_151209C |
| | Cell 1 DP-3 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 01:31 PM | ICP-MS4_151210A |
| 1512052-04A | Cell 1 DP-3 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 03:10 PM | ICP-MS4_151210A |
| | Cell 1 DP-4 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 03:01 PM | GCMS1_151207A |
| | Cell 1 DP-4 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/08/15 05:53 PM | IC2_151208B |
| | Cell 1 DP-4 | Soil | E300 | Anions by IC method - Soil | 72593 | 10 | 12/09/15 01:53 PM | IC2_151208B |
| 1512052-04B | Cell 1 DP-4 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:26 PM | UV/VIS_2_151209A |
| | Cell 1 DP-4 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| | Cell 1 DP-4 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 02:24 PM | GCMS8_151208A |
| | Cell 1 DP-4 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/08/15 10:12 PM | GCMS9_151208C |
| 1512052-04C | Cell 1 DP-4 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| | Cell 1 DP-4 | Soil | D2216 | Percent Moisture | 72571 | 1 | 12/07/15 08:00 AM | PMOIST_151204A |
| | Cell 1 DP-4 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 12:27 PM | CETAC2_HG_151209C |
| | Cell 1 DP-4 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 01:24 PM | ICP-MS4_151210A |
| 1512052-05A | Cell 1 DP-4 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 03:02 PM | ICP-MS4_151210A |
| | Cell 2 DP-1 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 03:32 PM | GCMS1_151207A |
| | Cell 2 DP-1 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/08/15 06:08 PM | IC2_151208B |
| | Cell 2 DP-1 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:26 PM | UV/VIS_2_151209A |
| 1512052-05B | Cell 2 DP-1 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| | Cell 2 DP-1 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 02:56 PM | GCMS8_151208A |
| | Cell 2 DP-1 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/08/15 10:37 PM | GCMS9_151208C |
| | Cell 2 DP-1 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| 1512052-05D | Cell 2 DP-1 | Soil | D2216 | Percent Moisture | 72579 | 1 | 12/08/15 09:32 AM | PMOIST_151207A |

Lab Order: 1512052
Client: Larson & Associates
Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|-------------------------------|----------|----------|-------------------|-------------------|
| 1512052-05D | Cell 2 DP-1 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 12:38 PM | CETAC2_HG_151209C |
| | Cell 2 DP-1 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 01:33 PM | ICP-MS4_151210A |
| | Cell 2 DP-1 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 03:12 PM | ICP-MS4_151210A |
| 1512052-06A | Cell 2 DP-2 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 04:03 PM | GCMS1_151207A |
| 1512052-06B | Cell 2 DP-2 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/08/15 06:22 PM | IC2_151208B |
| | Cell 2 DP-2 | Soil | E300 | Anions by IC method - Soil | 72593 | 10 | 12/09/15 02:08 PM | IC2_151208B |
| | Cell 2 DP-2 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:28 PM | UV/VIS_2_151209A |
| | Cell 2 DP-2 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| 1512052-06C | Cell 2 DP-2 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 03:27 PM | GCMS8_151208A |
| | Cell 2 DP-2 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/08/15 11:01 PM | GCMS9_151208C |
| | Cell 2 DP-2 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| 1512052-06D | Cell 2 DP-2 | Soil | D2216 | Percent Moisture | 72579 | 1 | 12/08/15 09:32 AM | PMOIST_151207A |
| | Cell 2 DP-2 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 12:40 PM | CETAC2_HG_151209C |
| | Cell 2 DP-2 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 01:35 PM | ICP-MS4_151210A |
| | Cell 2 DP-2 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 03:14 PM | ICP-MS4_151210A |
| 1512052-07A | Cell 2 DP-3 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 04:35 PM | GCMS1_151207A |
| 1512052-07B | Cell 2 DP-3 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/08/15 06:37 PM | IC2_151208B |
| | Cell 2 DP-3 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:28 PM | UV/VIS_2_151209A |
| | Cell 2 DP-3 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| 1512052-07C | Cell 2 DP-3 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 03:59 PM | GCMS8_151208A |
| | Cell 2 DP-3 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/08/15 11:26 PM | GCMS9_151208C |
| | Cell 2 DP-3 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| 1512052-07D | Cell 2 DP-3 | Soil | D2216 | Percent Moisture | 72579 | 1 | 12/08/15 09:32 AM | PMOIST_151207A |
| | Cell 2 DP-3 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 12:43 PM | CETAC2_HG_151209C |
| | Cell 2 DP-3 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 01:37 PM | ICP-MS4_151210A |
| | Cell 2 DP-3 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 03:16 PM | ICP-MS4_151210A |

DHL Analytical, Inc.

15-Dec-15

Lab Order: 1512052
Client: Larson & Associates
Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|-------------------------------|----------|----------|-------------------|-------------------|
| 1512052-08A | Cell 2 DP-4 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 05:06 PM | GCMS1_151207A |
| 1512052-08B | Cell 2 DP-4 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/08/15 07:21 PM | IC2_151208B |
| | Cell 2 DP-4 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:28 PM | UV/VIS_2_151209A |
| | Cell 2 DP-4 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| 1512052-08C | Cell 2 DP-4 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 04:30 PM | GCMS8_151208A |
| | Cell 2 DP-4 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/08/15 11:51 PM | GCMS9_151208C |
| | Cell 2 DP-4 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| 1512052-08D | Cell 2 DP-4 | Soil | D2216 | Percent Moisture | 72579 | 1 | 12/08/15 09:32 AM | PMOIST_151207A |
| | Cell 2 DP-4 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 12:45 PM | CETAC2_HG_151209C |
| | Cell 2 DP-4 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 01:39 PM | ICP-MS4_151210A |
| | Cell 2 DP-4 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 03:18 PM | ICP-MS4_151210A |
| 1512052-09A | Cell 3 DP-1 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 05:37 PM | GCMS1_151207A |
| 1512052-09B | Cell 3 DP-1 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/08/15 07:35 PM | IC2_151208B |
| | Cell 3 DP-1 | Soil | E300 | Anions by IC method - Soil | 72593 | 10 | 12/09/15 02:22 PM | IC2_151208B |
| | Cell 3 DP-1 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:28 PM | UV/VIS_2_151209A |
| | Cell 3 DP-1 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| 1512052-09C | Cell 3 DP-1 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 05:02 PM | GCMS8_151208A |
| | Cell 3 DP-1 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/09/15 12:16 AM | GCMS9_151208C |
| | Cell 3 DP-1 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| 1512052-09D | Cell 3 DP-1 | Soil | D2216 | Percent Moisture | 72579 | 1 | 12/08/15 09:32 AM | PMOIST_151207A |
| | Cell 3 DP-1 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 12:47 PM | CETAC2_HG_151209C |
| | Cell 3 DP-1 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 01:41 PM | ICP-MS4_151210A |
| | Cell 3 DP-1 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 03:20 PM | ICP-MS4_151210A |
| 1512052-10A | Cell 3 DP-2 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 06:08 PM | GCMS1_151207A |
| 1512052-10B | Cell 3 DP-2 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/09/15 09:15 AM | IC2_151208B |
| | Cell 3 DP-2 | Soil | E300 | Anions by IC method - Soil | 72593 | 10 | 12/09/15 02:37 PM | IC2_151208B |
| | Cell 3 DP-2 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:30 PM | UV/VIS_2_151209A |

DHL Analytical, Inc.

15-Dec-15

Lab Order: 1512052
Client: Larson & Associates
Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|-------------------------------|----------|----------|-------------------|-------------------|
| 1512052-10B | Cell 3 DP-2 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| 1512052-10C | Cell 3 DP-2 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 05:33 PM | GCMS8_151208A |
| | Cell 3 DP-2 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/09/15 12:41 AM | GCMS9_151208C |
| | Cell 3 DP-2 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| 1512052-10D | Cell 3 DP-2 | Soil | D2216 | Percent Moisture | 72579 | 1 | 12/08/15 09:32 AM | PMOIST_151207A |
| | Cell 3 DP-2 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 12:49 PM | CETAC2_HG_151209C |
| | Cell 3 DP-2 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 03:22 PM | ICP-MS4_151210A |
| | Cell 3 DP-2 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 01:43 PM | ICP-MS4_151210A |
| 1512052-11A | Cell 3 DP-3 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 06:39 PM | GCMS1_151207A |
| 1512052-11B | Cell 3 DP-3 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/09/15 10:16 AM | IC2_151208B |
| | Cell 3 DP-3 | Soil | E300 | Anions by IC method - Soil | 72593 | 10 | 12/09/15 02:51 PM | IC2_151208B |
| | Cell 3 DP-3 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:30 PM | UV/VIS_2_151209A |
| | Cell 3 DP-3 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| 1512052-11C | Cell 3 DP-3 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 06:05 PM | GCMS8_151208A |
| | Cell 3 DP-3 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/09/15 01:06 AM | GCMS9_151208C |
| | Cell 3 DP-3 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| 1512052-11D | Cell 3 DP-3 | Soil | D2216 | Percent Moisture | 72579 | 1 | 12/08/15 09:32 AM | PMOIST_151207A |
| | Cell 3 DP-3 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 12:56 PM | CETAC2_HG_151209C |
| | Cell 3 DP-3 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 02:42 PM | ICP-MS4_151210A |
| | Cell 3 DP-3 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 12:55 PM | ICP-MS4_151210A |
| 1512052-12A | Cell 3 DP-4 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 07:10 PM | GCMS1_151207A |
| 1512052-12B | Cell 3 DP-4 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/09/15 10:31 AM | IC2_151208B |
| | Cell 3 DP-4 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:30 PM | UV/VIS_2_151209A |
| | Cell 3 DP-4 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| 1512052-12C | Cell 3 DP-4 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 06:36 PM | GCMS8_151208A |
| | Cell 3 DP-4 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/09/15 01:30 AM | GCMS9_151208C |
| | Cell 3 DP-4 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |

DHL Analytical, Inc.

15-Dec-15

Lab Order: 1512052
Client: Larson & Associates
Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|-------------------------------|----------|----------|-------------------|-------------------|
| 1512052-12D | Cell 3 DP-4 | Soil | D2216 | Percent Moisture | 72579 | 1 | 12/08/15 09:32 AM | PMOIST_151207A |
| | Cell 3 DP-4 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 12:58 PM | CETAC2_HG_151209C |
| | Cell 3 DP-4 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 02:44 PM | ICP-MS4_151210A |
| | Cell 3 DP-4 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 12:57 PM | ICP-MS4_151210A |
| 1512052-13A | Cell 4 DP-1 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 07:41 PM | GCMS1_151207A |
| 1512052-13B | Cell 4 DP-1 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/09/15 10:45 AM | IC2_151208B |
| | Cell 4 DP-1 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:34 PM | UV/VIS_2_151209A |
| | Cell 4 DP-1 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| 1512052-13C | Cell 4 DP-1 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 07:07 PM | GCMS8_151208A |
| | Cell 4 DP-1 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/09/15 01:55 AM | GCMS9_151208C |
| | Cell 4 DP-1 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| 1512052-13D | Cell 4 DP-1 | Soil | D2216 | Percent Moisture | 72579 | 1 | 12/08/15 09:32 AM | PMOIST_151207A |
| | Cell 4 DP-1 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 01:01 PM | CETAC2_HG_151209C |
| | Cell 4 DP-1 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 12:59 PM | ICP-MS4_151210A |
| | Cell 4 DP-1 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 02:46 PM | ICP-MS4_151210A |
| 1512052-14A | Cell 4 DP-2 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 08:12 PM | GCMS1_151207A |
| 1512052-14B | Cell 4 DP-2 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/09/15 11:00 AM | IC2_151208B |
| | Cell 4 DP-2 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:34 PM | UV/VIS_2_151209A |
| | Cell 4 DP-2 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| 1512052-14C | Cell 4 DP-2 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 07:38 PM | GCMS8_151208A |
| | Cell 4 DP-2 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/09/15 02:20 AM | GCMS9_151208C |
| | Cell 4 DP-2 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| 1512052-14D | Cell 4 DP-2 | Soil | D2216 | Percent Moisture | 72579 | 1 | 12/08/15 09:32 AM | PMOIST_151207A |
| | Cell 4 DP-2 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 01:03 PM | CETAC2_HG_151209C |
| | Cell 4 DP-2 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 01:01 PM | ICP-MS4_151210A |
| | Cell 4 DP-2 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 02:48 PM | ICP-MS4_151210A |

Lab Order: 1512052
Client: Larson & Associates
Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

| Sample ID | Client Sample ID | Matrix | Test Number | Test Name | Batch ID | Dilution | Analysis Date | Run ID |
|-------------|------------------|--------|-------------|-------------------------------|----------|----------|-------------------|-------------------|
| 1512052-15A | Cell 4 DP-3 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 08:43 PM | GCMS1_151207A |
| 1512052-15B | Cell 4 DP-3 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/09/15 11:44 AM | IC2_151208B |
| | Cell 4 DP-3 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:34 PM | UV/VIS_2_151209A |
| | Cell 4 DP-3 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| 1512052-15C | Cell 4 DP-3 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 08:09 PM | GCMS8_151208A |
| | Cell 4 DP-3 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/09/15 02:45 AM | GCMS9_151208C |
| | Cell 4 DP-3 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| 1512052-15D | Cell 4 DP-3 | Soil | D2216 | Percent Moisture | 72579 | 1 | 12/08/15 09:32 AM | PMOIST_151207A |
| | Cell 4 DP-3 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 01:05 PM | CETAC2_HG_151209C |
| | Cell 4 DP-3 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 01:03 PM | ICP-MS4_151210A |
| | Cell 4 DP-3 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 02:50 PM | ICP-MS4_151210A |
| 1512052-16A | Cell 4 DP-4 | Soil | SW8260C | 8260 Soil Volatiles by GC/MS | 72585 | 1 | 12/07/15 09:15 PM | GCMS1_151207A |
| 1512052-16B | Cell 4 DP-4 | Soil | E300 | Anions by IC method - Soil | 72593 | 1 | 12/09/15 11:59 AM | IC2_151208B |
| | Cell 4 DP-4 | Soil | SW9014 | Cyanide - Solid Sample | 72628 | 1 | 12/09/15 05:34 PM | UV/VIS_2_151209A |
| | Cell 4 DP-4 | Soil | SW9045D | pH of Solid (Corrosivity) | 72575 | 1 | 12/07/15 10:30 AM | PH_151207A |
| 1512052-16C | Cell 4 DP-4 | Soil | SW8270D | PCB by GC/MS - Soil/Solid | 72578 | 1 | 12/08/15 08:40 PM | GCMS8_151208A |
| | Cell 4 DP-4 | Soil | SW8270D | Semivolatiles by GC/MS - Soil | 72576 | 1 | 12/09/15 03:10 AM | GCMS9_151208C |
| | Cell 4 DP-4 | Soil | E418.1 | TRPH | 72702 | 1 | 12/14/15 10:35 AM | IR207_151214A |
| 1512052-16D | Cell 4 DP-4 | Soil | D2216 | Percent Moisture | 72579 | 1 | 12/08/15 09:32 AM | PMOIST_151207A |
| | Cell 4 DP-4 | Soil | SW7471B | Total Mercury: Soil/Solid | 72606 | 1 | 12/09/15 01:08 PM | CETAC2_HG_151209C |
| | Cell 4 DP-4 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 50 | 12/10/15 02:52 PM | ICP-MS4_151210A |
| | Cell 4 DP-4 | Soil | SW6020A | Trace Metals: ICP-MS - Solid | 72605 | 5 | 12/10/15 01:05 PM | ICP-MS4_151210A |

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 1 DP-1
Lab ID: 1512052-01
Collection Date: 12/02/15 01:25 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|----------------|-----------|----|---------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0396 | 0.0159 | 0.0396 | | mg/Kg-dry | 1 | 12/09/15 12:20 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 3.90 | 0.496 | 0.991 | | mg/Kg-dry | 5 | 12/10/15 01:28 PM |
| Barium | 605 | 4.96 | 19.8 | | mg/Kg-dry | 50 | 12/10/15 03:06 PM |
| Cadmium | <0.297 | 0.0991 | 0.297 | | mg/Kg-dry | 5 | 12/10/15 01:28 PM |
| Chromium | 14.1 | 0.496 | 1.98 | | mg/Kg-dry | 5 | 12/10/15 01:28 PM |
| Copper | 6.10 | 0.496 | 1.98 | | mg/Kg-dry | 5 | 12/10/15 01:28 PM |
| Iron | 12300 | 124 | 124 | | mg/Kg-dry | 50 | 12/10/15 03:06 PM |
| Lead | 5.50 | 0.0991 | 0.297 | | mg/Kg-dry | 5 | 12/10/15 01:28 PM |
| Manganese | 327 | 0.496 | 1.98 | | mg/Kg-dry | 5 | 12/10/15 01:28 PM |
| Selenium | 0.887 | 0.149 | 0.496 | | mg/Kg-dry | 5 | 12/10/15 01:28 PM |
| Silver | <0.198 | 0.0991 | 0.198 | | mg/Kg-dry | 5 | 12/10/15 01:28 PM |
| Zinc | 25.9 | 0.991 | 2.48 | | mg/Kg-dry | 5 | 12/10/15 01:28 PM |
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | | Analyst: DEW |
| 1-Methylnaphthalene | <0.0302 | 0.0114 | 0.0302 | N | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 2-Methylnaphthalene | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| Naphthalene | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| Benzo[a]pyrene | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 2,3,4,6-Tetrachlorophenol | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 2,4,5-Trichlorophenol | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 2,4,6-Trichlorophenol | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 2,4-Dichlorophenol | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 2,4-Dimethylphenol | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 2,4-Dinitrophenol | <0.150 | 0.0568 | 0.150 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 2,6-Dichlorophenol | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 2-Chlorophenol | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 2-Methylphenol | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 2-Nitrophenol | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 4,6-Dinitro-2-methylphenol | <0.0750 | 0.0341 | 0.0750 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 4-Chloro-3-methylphenol | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 4-Methylphenol | <0.0302 | 0.0227 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| 4-Nitrophenol | <0.150 | 0.0568 | 0.150 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| Pentachlorophenol | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| Phenol | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| Total Phenol (Calculated) | <0.0302 | 0.0114 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 08:57 PM |
| Surr: 2,4,6-Tribromophenol | 71.0 | 0 | 45-126 | | %REC | 1 | 12/08/15 08:57 PM |
| Surr: 2-Fluorobiphenyl | 69.0 | 0 | 60-125 | | %REC | 1 | 12/08/15 08:57 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 1 DP-1
Lab ID: 1512052-01
Collection Date: 12/02/15 01:25 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|-----------|-----------|-------------------|-------------------|
| SEMIVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 66.0 | 0 | 37-125 | %REC | 1 | 12/08/15 08:57 PM | |
| Surr: 4-Terphenyl-d14 | 76.0 | 0 | 45-125 | %REC | 1 | 12/08/15 08:57 PM | |
| Surr: Nitrobenzene-d5 | 62.0 | 0 | 45-125 | %REC | 1 | 12/08/15 08:57 PM | |
| Surr: Phenol-d5 | 64.0 | 0 | 40-125 | %REC | 1 | 12/08/15 08:57 PM | |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0379 | 0.0189 | 0.0379 | mg/Kg-dry | 1 | 12/08/15 12:50 PM | |
| Aroclor 1221 | <0.0379 | 0.0189 | 0.0379 | mg/Kg-dry | 1 | 12/08/15 12:50 PM | |
| Aroclor 1232 | <0.0379 | 0.0189 | 0.0379 | mg/Kg-dry | 1 | 12/08/15 12:50 PM | |
| Aroclor 1242 | <0.0379 | 0.0189 | 0.0379 | mg/Kg-dry | 1 | 12/08/15 12:50 PM | |
| Aroclor 1248 | <0.0379 | 0.0189 | 0.0379 | mg/Kg-dry | 1 | 12/08/15 12:50 PM | |
| Aroclor 1254 | <0.0379 | 0.0189 | 0.0379 | mg/Kg-dry | 1 | 12/08/15 12:50 PM | |
| Aroclor 1260 | <0.0379 | 0.0189 | 0.0379 | mg/Kg-dry | 1 | 12/08/15 12:50 PM | |
| Polychlorinated biphenyls | <0.0379 | 0.0189 | 0.0379 | N | mg/Kg-dry | 1 | 12/08/15 12:50 PM |
| Surr: 2-Fluorobiphenyl | 86.6 | 0 | 43-125 | %REC | 1 | 12/08/15 12:50 PM | |
| Surr: 4-Terphenyl-d14 | 81.3 | 0 | 32-125 | %REC | 1 | 12/08/15 12:50 PM | |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| Benzene | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| Toluene | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| Carbon tetrachloride | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| 1,2-Dichloroethane | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| 1,1-Dichloroethylene | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| Tetrachloroethylene | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| Trichloroethylene | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| Ethylbenzene | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| Total Xylenes | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| Methylene chloride | <0.00550 | 0.00550 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| Chloroform | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| 1,1-Dichloroethane | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| Ethylene bromide | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| 1,1,1-Trichloroethane | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| 1,1,2-Trichloroethane | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| 1,1,2,2-Tetrachloroethane | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| Vinyl chloride | <0.00550 | 0.00110 | 0.00550 | mg/Kg-dry | 1 | 12/07/15 01:28 PM | |
| Surr: 1,2-Dichloroethane-d4 | 104 | 0 | 52-149 | %REC | 1 | 12/07/15 01:28 PM | |
| Surr: 4-Bromofluorobenzene | 99.2 | 0 | 84-118 | %REC | 1 | 12/07/15 01:28 PM | |
| Surr: Dibromofluoromethane | 104 | 0 | 65-135 | %REC | 1 | 12/07/15 01:28 PM | |
| Surr: Toluene-d8 | 91.4 | 0 | 84-116 | %REC | 1 | 12/07/15 01:28 PM | |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analytic detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.**Date:** 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 1 DP-1
Lab ID: 1512052-01
Collection Date: 12/02/15 01:25 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------------|-------|------|-----------------|----|--------------------|
| TRPH Petroleum Hydrocarbons, TR | <10.9 | 5.46 | 10.9 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE Cyanide, Total | <0.561 | 0.225 | 0.561 | | mg/Kg-dry | 1 | 12/09/15 05:23 PM |
| ANIONS BY IC METHOD - SOIL | | E300 | | | | | Analyst: AV |
| Chloride | 15.6 | 5.04 | 5.04 | | mg/Kg-dry | 1 | 12/08/15 05:09 PM |
| Fluoride | 3.43 | 1.01 | 1.01 | | mg/Kg-dry | 1 | 12/08/15 05:09 PM |
| Nitrate-N | <5.04 | 5.04 | 5.04 | | mg/Kg-dry | 1 | 12/08/15 05:09 PM |
| Sulfate | 70.6 | 10.1 | 10.1 | | mg/Kg-dry | 1 | 12/08/15 05:09 PM |
| PH OF SOLID (CORROSION) pH | 8.16 | 0 | 0 | | pH Units@21.4°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE Percent Moisture | 12.3 | 0 | 0 | | WT% | 1 | 12/07/15 08:00 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Casc Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 1 DP-2
Lab ID: 1512052-02
Collection Date: 12/02/15 01:35 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|----------------|-----------|----|---------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0370 | 0.0148 | 0.0370 | | mg/Kg-dry | 1 | 12/09/15 12:22 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 3.32 | 0.488 | 0.976 | | mg/Kg-dry | 5 | 12/10/15 01:29 PM |
| Barium | 511 | 4.88 | 19.5 | | mg/Kg-dry | 50 | 12/10/15 03:08 PM |
| Cadmium | <0.293 | 0.0976 | 0.293 | | mg/Kg-dry | 5 | 12/10/15 01:29 PM |
| Chromium | 18.7 | 0.488 | 1.95 | | mg/Kg-dry | 5 | 12/10/15 01:29 PM |
| Copper | 6.84 | 0.488 | 1.95 | | mg/Kg-dry | 5 | 12/10/15 01:29 PM |
| Iron | 17700 | 122 | 122 | | mg/Kg-dry | 50 | 12/10/15 03:08 PM |
| Lead | 10.5 | 0.0976 | 0.293 | | mg/Kg-dry | 5 | 12/10/15 01:29 PM |
| Manganese | 1630 | 4.88 | 19.5 | | mg/Kg-dry | 50 | 12/10/15 03:08 PM |
| Selenium | 1.38 | 0.146 | 0.488 | | mg/Kg-dry | 5 | 12/10/15 01:29 PM |
| Silver | <0.195 | 0.0976 | 0.195 | | mg/Kg-dry | 5 | 12/10/15 01:29 PM |
| Zinc | 36.4 | 0.976 | 2.44 | | mg/Kg-dry | 5 | 12/10/15 01:29 PM |
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | | Analyst: DEW |
| 1-Methylnaphthalene | <0.0281 | 0.0106 | 0.0281 | N | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 2-Methylnaphthalene | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| Naphthalene | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| Benzo[a]pyrene | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 2,3,4,6-Tetrachlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 2,4,5-Trichlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 2,4,6-Trichlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 2,4-Dichlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 2,4-Dimethylphenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 2,4-Dinitrophenol | <0.139 | 0.0528 | 0.139 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 2,6-Dichlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 2-Chlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 2-Methylphenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 2-Nitrophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 4,6-Dinitro-2-methylphenol | <0.0697 | 0.0317 | 0.0697 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 4-Chloro-3-methylphenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 4-Methylphenol | <0.0281 | 0.0211 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| 4-Nitrophenol | <0.139 | 0.0528 | 0.139 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| Pentachlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| Phenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| Total Phenol (Calculated) | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/08/15 09:22 PM |
| Surr: 2,4,6-Tribromophenol | 82.0 | 0 | 45-126 | | %REC | 1 | 12/08/15 09:22 PM |
| Surr: 2-Fluorobiphenyl | 76.0 | 0 | 60-125 | | %REC | 1 | 12/08/15 09:22 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 1 DP-2
Lab ID: 1512052-02
Collection Date: 12/02/15 01:35 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|----------------|-----------|----|---------------------|
| SEMIVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | | Analyst: DEW |
| Surr: 2-Fluorophenol | 73.0 | 0 | 37-125 | %REC | | 1 | 12/08/15 09:22 PM |
| Surr: 4-Terphenyl-d14 | 86.0 | 0 | 45-125 | %REC | | 1 | 12/08/15 09:22 PM |
| Surr: Nitrobenzene-d5 | 67.0 | 0 | 45-125 | %REC | | 1 | 12/08/15 09:22 PM |
| Surr: Phenol-d5 | 73.0 | 0 | 40-125 | %REC | | 1 | 12/08/15 09:22 PM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| | | | | SW8270D | | | Analyst: KL |
| Aroclor 1016 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 01:22 PM |
| Aroclor 1221 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 01:22 PM |
| Aroclor 1232 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 01:22 PM |
| Aroclor 1242 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 01:22 PM |
| Aroclor 1248 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 01:22 PM |
| Aroclor 1254 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 01:22 PM |
| Aroclor 1260 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 01:22 PM |
| Polychlorinated biphenyls | <0.0352 | 0.0176 | 0.0352 | N | mg/Kg-dry | 1 | 12/08/15 01:22 PM |
| Surr: 2-Fluorobiphenyl | 90.3 | 0 | 43-125 | %REC | | 1 | 12/08/15 01:22 PM |
| Surr: 4-Terphenyl-d14 | 84.1 | 0 | 32-125 | %REC | | 1 | 12/08/15 01:22 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| | | | | SW8260C | | | Analyst: SW |
| Benzene | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| Toluene | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| Carbon tetrachloride | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| 1,2-Dichloroethane | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| 1,1-Dichloroethylene | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| Tetrachloroethylene | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| Trichloroethylene | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| Ethylbenzene | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| Total Xylenes | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| Methylene chloride | <0.00524 | 0.00524 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| Chloroform | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| 1,1-Dichloroethane | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| Ethylene bromide | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| 1,1,1-Trichloroethane | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| 1,1,2-Trichloroethane | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| 1,1,2,2-Tetrachloroethane | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| Vinyl chloride | <0.00524 | 0.00105 | 0.00524 | mg/Kg-dry | | 1 | 12/07/15 01:59 PM |
| Surr: 1,2-Dichloroethane-d4 | 106 | 0 | 52-149 | %REC | | 1 | 12/07/15 01:59 PM |
| Surr: 4-Bromofluorobenzene | 99.5 | 0 | 84-118 | %REC | | 1 | 12/07/15 01:59 PM |
| Surr: Dibromofluoromethane | 105 | 0 | 65-135 | %REC | | 1 | 12/07/15 01:59 PM |
| Surr: Toluene-d8 | 92.3 | 0 | 84-116 | %REC | | 1 | 12/07/15 01:59 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.**Date:** 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 1 DP-2
Lab ID: 1512052-02
Collection Date: 12/02/15 01:35 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-----------------------------------|--------|-------|-------|------|-----------------|----|-------------------|
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <10.1 | 5.06 | 10.1 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE | | | | | | | |
| Cyanide, Total | <0.530 | 0.212 | 0.530 | | mg/Kg-dry | 1 | 12/09/15 05:26 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 22.7 | 5.34 | 5.34 | | mg/Kg-dry | 1 | 12/08/15 05:24 PM |
| Fluoride | 4.31 | 1.07 | 1.07 | | mg/Kg-dry | 1 | 12/08/15 05:24 PM |
| Nitrate-N | <5.34 | 5.34 | 5.34 | | mg/Kg-dry | 1 | 12/08/15 05:24 PM |
| Sulfate | 48.5 | 10.7 | 10.7 | | mg/Kg-dry | 1 | 12/08/15 05:24 PM |
| PH OF SOLID (CORROSION) | | | | | | | |
| pH | 8.43 | 0 | 0 | | pH Units@21.1°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 9.28 | 0 | 0 | | WT% | 1 | 12/07/15 08:00 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 1 DP-3
Lab ID: 1512052-03
Collection Date: 12/02/15 01:45 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|----------------|-----------|---------------------|-------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0401 | 0.0161 | 0.0401 | | mg/Kg-dry | 1 | 12/09/15 12:24 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 6.24 | 0.539 | 1.08 | | mg/Kg-dry | 5 | 12/10/15 01:31 PM |
| Barium | 582 | 5.39 | 21.6 | | mg/Kg-dry | 50 | 12/10/15 03:10 PM |
| Cadmium | <0.323 | 0.108 | 0.323 | | mg/Kg-dry | 5 | 12/10/15 01:31 PM |
| Chromium | 16.8 | 0.539 | 2.16 | | mg/Kg-dry | 5 | 12/10/15 01:31 PM |
| Copper | 5.27 | 0.539 | 2.16 | | mg/Kg-dry | 5 | 12/10/15 01:31 PM |
| Iron | 11500 | 135 | 135 | | mg/Kg-dry | 50 | 12/10/15 03:10 PM |
| Lead | 6.18 | 0.108 | 0.323 | | mg/Kg-dry | 5 | 12/10/15 01:31 PM |
| Manganese | 386 | 0.539 | 2.16 | | mg/Kg-dry | 5 | 12/10/15 01:31 PM |
| Selenium | 0.865 | 0.162 | 0.539 | | mg/Kg-dry | 5 | 12/10/15 01:31 PM |
| Silver | <0.216 | 0.108 | 0.216 | | mg/Kg-dry | 5 | 12/10/15 01:31 PM |
| Zinc | 24.4 | 1.08 | 2.69 | | mg/Kg-dry | 5 | 12/10/15 01:31 PM |
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | Analyst: DEW | |
| 1-Methylnaphthalene | <0.0295 | 0.0111 | 0.0295 | N | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 2-Methylnaphthalene | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| Naphthalene | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| Benzo[a]pyrene | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 2,3,4,6-Tetrachlorophenol | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 2,4,5-Trichlorophenol | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 2,4,6-Trichlorophenol | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 2,4-Dichlorophenol | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 2,4-Dimethylphenol | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 2,4-Dinitrophenol | <0.146 | 0.0554 | 0.146 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 2,6-Dichlorophenol | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 2-Chlorophenol | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 2-Methylphenol | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 2-Nitrophenol | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 4,6-Dinitro-2-methylphenol | <0.0731 | 0.0332 | 0.0731 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 4-Chloro-3-methylphenol | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 4-Methylphenol | <0.0295 | 0.0222 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| 4-Nitrophenol | <0.146 | 0.0554 | 0.146 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| Pentachlorophenol | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| Phenol | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| Total Phenol (Calculated) | <0.0295 | 0.0111 | 0.0295 | | mg/Kg-dry | 1 | 12/08/15 09:47 PM |
| Surr: 2,4,6-Tribromophenol | 73.0 | 0 | 45-126 | | %REC | 1 | 12/08/15 09:47 PM |
| Surr: 2-Fluorobiphenyl | 68.0 | 0 | 60-125 | | %REC | 1 | 12/08/15 09:47 PM |

Qualifiers:
 * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 1 DP-3
Lab ID: 1512052-03
Collection Date: 12/02/15 01:45 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|-----------|-----------|-------------------|-------------------|
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 66.0 | 0 | 37-125 | %REC | 1 | 12/08/15 09:47 PM | |
| Surr: 4-Terphenyl-d14 | 78.0 | 0 | 45-125 | %REC | 1 | 12/08/15 09:47 PM | |
| Surr: Nitrobenzene-d5 | 63.0 | 0 | 45-125 | %REC | 1 | 12/08/15 09:47 PM | |
| Surr: Phenol-d5 | 65.0 | 0 | 40-125 | %REC | 1 | 12/08/15 09:47 PM | |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0369 | 0.0185 | 0.0369 | mg/Kg-dry | 1 | 12/08/15 01:53 PM | |
| Aroclor 1221 | <0.0369 | 0.0185 | 0.0369 | mg/Kg-dry | 1 | 12/08/15 01:53 PM | |
| Aroclor 1232 | <0.0369 | 0.0185 | 0.0369 | mg/Kg-dry | 1 | 12/08/15 01:53 PM | |
| Aroclor 1242 | <0.0369 | 0.0185 | 0.0369 | mg/Kg-dry | 1 | 12/08/15 01:53 PM | |
| Aroclor 1248 | <0.0369 | 0.0185 | 0.0369 | mg/Kg-dry | 1 | 12/08/15 01:53 PM | |
| Aroclor 1254 | <0.0369 | 0.0185 | 0.0369 | mg/Kg-dry | 1 | 12/08/15 01:53 PM | |
| Aroclor 1260 | <0.0369 | 0.0185 | 0.0369 | mg/Kg-dry | 1 | 12/08/15 01:53 PM | |
| Polychlorinated biphenyls | <0.0369 | 0.0185 | 0.0369 | N | mg/Kg-dry | 1 | 12/08/15 01:53 PM |
| Surr: 2-Fluorobiphenyl | 81.9 | 0 | 43-125 | %REC | 1 | 12/08/15 01:53 PM | |
| Surr: 4-Terphenyl-d14 | 80.8 | 0 | 32-125 | %REC | 1 | 12/08/15 01:53 PM | |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| Benzene | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| Toluene | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| Carbon tetrachloride | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| 1,2-Dichloroethane | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| 1,1-Dichloroethylene | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| Tetrachloroethylene | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| Trichloroethylene | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| Ethylbenzene | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| Total Xylenes | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| Methylene chloride | <0.00568 | 0.00568 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| Chloroform | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| 1,1-Dichloroethane | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| Ethylene bromide | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| 1,1,1-Trichloroethane | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| 1,1,2-Trichloroethane | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| 1,1,2,2-Tetrachloroethane | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| Vinyl chloride | <0.00568 | 0.00114 | 0.00568 | mg/Kg-dry | 1 | 12/07/15 02:30 PM | |
| Surr: 1,2-Dichloroethane-d4 | 106 | 0 | 52-149 | %REC | 1 | 12/07/15 02:30 PM | |
| Surr: 4-Bromofluorobenzene | 99.9 | 0 | 84-118 | %REC | 1 | 12/07/15 02:30 PM | |
| Surr: Dibromofluoromethane | 104 | 0 | 65-135 | %REC | 1 | 12/07/15 02:30 PM | |
| Surr: Toluene-d8 | 91.3 | 0 | 84-116 | %REC | 1 | 12/07/15 02:30 PM | |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Casc Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 1 DP-3
Lab ID: 1512052-03
Collection Date: 12/02/15 01:45 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------------|-------|------|-----------------|----|--------------------|
| TRPH Petroleum Hydrocarbons, TR | <11.3 | 5.66 | 11.3 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE Cyanide, Total | <0.549 | 0.220 | 0.549 | | mg/Kg-dry | 1 | 12/09/15 05:26 PM |
| ANIONS BY IC METHOD - SOIL | | E300 | | | | | Analyst: AV |
| Chloride | 1580 | 55.1 | 55.1 | | mg/Kg-dry | 10 | 12/09/15 01:38 PM |
| Fluoride | 3.17 | 1.10 | 1.10 | | mg/Kg-dry | 1 | 12/08/15 05:39 PM |
| Nitrate-N | 10.1 | 5.51 | 5.51 | | mg/Kg-dry | 1 | 12/08/15 05:39 PM |
| Sulfate | 210 | 11.0 | 11.0 | | mg/Kg-dry | 1 | 12/08/15 05:39 PM |
| PH OF SOLID (CORROSION) pH | 7.82 | 0 | 0 | | pH Units@21.2°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE Percent Moisture | 14.1 | 0 | 0 | | WT% | 1 | 12/07/15 08:00 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 1 DP-4
Lab ID: 1512052-04
Collection Date: 12/02/15 02:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|----------------|-----------|----|---------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0421 | 0.0168 | 0.0421 | | mg/Kg-dry | 1 | 12/09/15 12:27 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 4.13 | 0.551 | 1.10 | | mg/Kg-dry | 5 | 12/10/15 01:24 PM |
| Barium | 157 | 0.551 | 2.21 | | mg/Kg-dry | 5 | 12/10/15 01:24 PM |
| Cadmium | <0.331 | 0.110 | 0.331 | | mg/Kg-dry | 5 | 12/10/15 01:24 PM |
| Chromium | 21.0 | 0.551 | 2.21 | | mg/Kg-dry | 5 | 12/10/15 01:24 PM |
| Copper | 6.88 | 0.551 | 2.21 | | mg/Kg-dry | 5 | 12/10/15 01:24 PM |
| Iron | 19200 | 138 | 138 | | mg/Kg-dry | 50 | 12/10/15 03:02 PM |
| Lead | 9.67 | 0.110 | 0.331 | | mg/Kg-dry | 5 | 12/10/15 01:24 PM |
| Manganese | 922 | 5.51 | 22.1 | | mg/Kg-dry | 50 | 12/10/15 03:02 PM |
| Selenium | 1.70 | 0.165 | 0.551 | | mg/Kg-dry | 5 | 12/10/15 01:24 PM |
| Silver | <0.221 | 0.110 | 0.221 | | mg/Kg-dry | 5 | 12/10/15 01:24 PM |
| Zinc | 39.7 | 1.10 | 2.76 | | mg/Kg-dry | 5 | 12/10/15 01:24 PM |
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | | Analyst: DEW |
| 1-Methylnaphthalene | <0.0302 | 0.0113 | 0.0302 | N | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 2-Methylnaphthalene | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| Naphthalene | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| Benzo[a]pyrene | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 2,3,4,6-Tetrachlorophenol | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 2,4,5-Trichlorophenol | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 2,4,6-Trichlorophenol | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 2,4-Dichlorophenol | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 2,4-Dimethylphenol | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 2,4-Dinitrophenol | <0.150 | 0.0567 | 0.150 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 2,6-Dichlorophenol | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 2-Chlorophenol | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 2-Methylphenol | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 2-Nitrophenol | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 4,6-Dinitro-2-methylphenol | <0.0749 | 0.0340 | 0.0749 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 4-Chloro-3-methylphenol | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 4-Methylphenol | <0.0302 | 0.0227 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| 4-Nitrophenol | <0.150 | 0.0567 | 0.150 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| Pentachlorophenol | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| Phenol | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| Total Phenol (Calculated) | <0.0302 | 0.0113 | 0.0302 | | mg/Kg-dry | 1 | 12/08/15 10:12 PM |
| Surr: 2,4,6-Tribromophenol | 80.0 | 0 | 45-126 | | %REC | 1 | 12/08/15 10:12 PM |
| Surr: 2-Fluorobiphenyl | 75.0 | 0 | 60-125 | | %REC | 1 | 12/08/15 10:12 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

| | | | |
|--------------------|-----------------------|--------------------------|-------------------|
| CLIENT: | Larson & Associates | Client Sample ID: | Cell 1 DP-4 |
| Project: | R360 Artesia Landfarm | Lab ID: | 1512052-04 |
| Project No: | 15-0121-01 | Collection Date: | 12/02/15 02:00 PM |
| Lab Order: | 1512052 | Matrix: | SOIL |

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|-----------|-----------|----|-------------------|
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 73.0 | 0 | 37-125 | %REC | | 1 | 12/08/15 10:12 PM |
| Surr: 4-Terphenyl-d14 | 87.0 | 0 | 45-125 | %REC | | 1 | 12/08/15 10:12 PM |
| Surr: Nitrobenzene-d5 | 68.0 | 0 | 45-125 | %REC | | 1 | 12/08/15 10:12 PM |
| Surr: Phenol-d5 | 72.0 | 0 | 40-125 | %REC | | 1 | 12/08/15 10:12 PM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0378 | 0.0189 | 0.0378 | mg/Kg-dry | | 1 | 12/08/15 02:24 PM |
| Aroclor 1221 | <0.0378 | 0.0189 | 0.0378 | mg/Kg-dry | | 1 | 12/08/15 02:24 PM |
| Aroclor 1232 | <0.0378 | 0.0189 | 0.0378 | mg/Kg-dry | | 1 | 12/08/15 02:24 PM |
| Aroclor 1242 | <0.0378 | 0.0189 | 0.0378 | mg/Kg-dry | | 1 | 12/08/15 02:24 PM |
| Aroclor 1248 | <0.0378 | 0.0189 | 0.0378 | mg/Kg-dry | | 1 | 12/08/15 02:24 PM |
| Aroclor 1254 | <0.0378 | 0.0189 | 0.0378 | mg/Kg-dry | | 1 | 12/08/15 02:24 PM |
| Aroclor 1260 | <0.0378 | 0.0189 | 0.0378 | mg/Kg-dry | | 1 | 12/08/15 02:24 PM |
| Polychlorinated biphenyls | <0.0378 | 0.0189 | 0.0378 | N | mg/Kg-dry | 1 | 12/08/15 02:24 PM |
| Surr: 2-Fluorobiphenyl | 89.4 | 0 | 43-125 | %REC | | 1 | 12/08/15 02:24 PM |
| Surr: 4-Terphenyl-d14 | 86.6 | 0 | 32-125 | %REC | | 1 | 12/08/15 02:24 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| Benzene | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| Toluene | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| Carbon tetrachloride | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| 1,2-Dichloroethane | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| 1,1-Dichloroethylene | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| Tetrachloroethylene | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| Trichloroethylene | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| Ethylbenzene | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| Total Xylenes | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| Methylene chloride | <0.00573 | 0.00573 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| Chloroform | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| 1,1-Dichloroethane | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| Ethylene bromide | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| 1,1,1-Trichloroethane | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| 1,1,2-Trichloroethane | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| 1,1,2,2-Tetrachloroethane | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| Vinyl chloride | <0.00573 | 0.00115 | 0.00573 | mg/Kg-dry | | 1 | 12/07/15 03:01 PM |
| Surr: 1,2-Dichloroethane-d4 | 106 | 0 | 52-149 | %REC | | 1 | 12/07/15 03:01 PM |
| Surr: 4-Bromofluorobenzene | 99.1 | 0 | 84-118 | %REC | | 1 | 12/07/15 03:01 PM |
| Surr: Dibromofluoromethane | 102 | 0 | 65-135 | %REC | | 1 | 12/07/15 03:01 PM |
| Surr: Toluene-d8 | 91.8 | 0 | 84-116 | %REC | | 1 | 12/07/15 03:01 PM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 1 DP-4
Lab ID: 1512052-04
Collection Date: 12/02/15 02:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-----------------------------------|--------|-------|-------|------|-----------------|----|-------------------|
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <11.0 | 5.50 | 11.0 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE | | | | | | | |
| Cyanide, Total | <0.565 | 0.226 | 0.565 | | mg/Kg-dry | 1 | 12/09/15 05:26 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 556 | 54.3 | 54.3 | | mg/Kg-dry | 10 | 12/09/15 01:53 PM |
| Fluoride | 7.13 | 1.09 | 1.09 | | mg/Kg-dry | 1 | 12/08/15 05:53 PM |
| Nitrate-N | <5.43 | 5.43 | 5.43 | | mg/Kg-dry | 1 | 12/08/15 05:53 PM |
| Sulfate | 746 | 10.9 | 10.9 | | mg/Kg-dry | 1 | 12/08/15 05:53 PM |
| PH OF SOLID (CORROSION) | | | | | | | |
| pH | 8.90 | 0 | 0 | | pH Units@21.3°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 14.4 | 0 | 0 | | WT% | 1 | 12/07/15 08:00 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Casc Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 2 DP-1
Lab ID: 1512052-05
Collection Date: 12/02/15 02:40 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|----------------|-----------|----|---------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0407 | 0.0163 | 0.0407 | | mg/Kg-dry | 1 | 12/09/15 12:38 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 2.70 | 0.435 | 0.869 | | mg/Kg-dry | 5 | 12/10/15 01:33 PM |
| Barium | 109 | 0.435 | 1.74 | | mg/Kg-dry | 5 | 12/10/15 01:33 PM |
| Cadmium | <0.261 | 0.0869 | 0.261 | | mg/Kg-dry | 5 | 12/10/15 01:33 PM |
| Chromium | 7.87 | 0.435 | 1.74 | | mg/Kg-dry | 5 | 12/10/15 01:33 PM |
| Copper | 3.45 | 0.435 | 1.74 | | mg/Kg-dry | 5 | 12/10/15 01:33 PM |
| Iron | 5830 | 109 | 109 | | mg/Kg-dry | 50 | 12/10/15 03:12 PM |
| Lead | 3.32 | 0.0869 | 0.261 | | mg/Kg-dry | 5 | 12/10/15 01:33 PM |
| Manganese | 104 | 0.435 | 1.74 | | mg/Kg-dry | 5 | 12/10/15 01:33 PM |
| Selenium | 0.487 | 0.130 | 0.435 | | mg/Kg-dry | 5 | 12/10/15 01:33 PM |
| Silver | <0.174 | 0.0869 | 0.174 | | mg/Kg-dry | 5 | 12/10/15 01:33 PM |
| Zinc | 14.4 | 0.869 | 2.17 | | mg/Kg-dry | 5 | 12/10/15 01:33 PM |
| SEMIVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | | Analyst: DEW |
| 1-Methylnaphthalene | <0.0284 | 0.0107 | 0.0284 | N | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 2-Methylnaphthalene | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| Naphthalene | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| Benzo[a]pyrene | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 2,3,4,6-Tetrachlorophenol | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 2,4,5-Trichlorophenol | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 2,4,6-Trichlorophenol | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 2,4-Dichlorophenol | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 2,4-Dimethylphenol | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 2,4-Dinitrophenol | <0.141 | 0.0534 | 0.141 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 2,6-Dichlorophenol | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 2-Chlorophenol | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 2-Methylphenol | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 2-Nitrophenol | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 4,6-Dinitro-2-methylphenol | <0.0704 | 0.0320 | 0.0704 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 4-Chloro-3-methylphenol | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 4-Methylphenol | <0.0284 | 0.0213 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| 4-Nitrophenol | <0.141 | 0.0534 | 0.141 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| Pentachlorophenol | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| Phenol | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| Total Phenol (Calculated) | <0.0284 | 0.0107 | 0.0284 | | mg/Kg-dry | 1 | 12/08/15 10:37 PM |
| Surr: 2,4,6-Tribromophenol | 81.0 | 0 | 45-126 | | %REC | 1 | 12/08/15 10:37 PM |
| Surr: 2-Fluorobiphenyl | 76.0 | 0 | 60-125 | | %REC | 1 | 12/08/15 10:37 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 2 DP-1
Lab ID: 1512052-05
Collection Date: 12/02/15 02:40 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|----------------|-----------|----|--------------------|
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 75.0 | 0 | 37-125 | %REC | | 1 | 12/08/15 10:37 PM |
| Surr: 4-Terphenyl-d14 | 87.0 | 0 | 45-125 | %REC | | 1 | 12/08/15 10:37 PM |
| Surr: Nitrobenzene-d5 | 70.0 | 0 | 45-125 | %REC | | 1 | 12/08/15 10:37 PM |
| Surr: Phenol-d5 | 74.0 | 0 | 40-125 | %REC | | 1 | 12/08/15 10:37 PM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0356 | 0.0178 | 0.0356 | mg/Kg-dry | | 1 | 12/08/15 02:56 PM |
| Aroclor 1221 | <0.0356 | 0.0178 | 0.0356 | mg/Kg-dry | | 1 | 12/08/15 02:56 PM |
| Aroclor 1232 | <0.0356 | 0.0178 | 0.0356 | mg/Kg-dry | | 1 | 12/08/15 02:56 PM |
| Aroclor 1242 | <0.0356 | 0.0178 | 0.0356 | mg/Kg-dry | | 1 | 12/08/15 02:56 PM |
| Aroclor 1248 | <0.0356 | 0.0178 | 0.0356 | mg/Kg-dry | | 1 | 12/08/15 02:56 PM |
| Aroclor 1254 | <0.0356 | 0.0178 | 0.0356 | mg/Kg-dry | | 1 | 12/08/15 02:56 PM |
| Aroclor 1260 | <0.0356 | 0.0178 | 0.0356 | mg/Kg-dry | | 1 | 12/08/15 02:56 PM |
| Polychlorinated biphenyls | <0.0356 | 0.0178 | 0.0356 | N | mg/Kg-dry | 1 | 12/08/15 02:56 PM |
| Surr: 2-Fluorobiphenyl | 92.3 | 0 | 43-125 | %REC | | 1 | 12/08/15 02:56 PM |
| Surr: 4-Terphenyl-d14 | 88.5 | 0 | 32-125 | %REC | | 1 | 12/08/15 02:56 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| | | | | SW8260C | | | Analyst: SW |
| Benzene | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| Toluene | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| Carbon tetrachloride | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| 1,2-Dichloroethane | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| 1,1-Dichloroethylene | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| Tetrachloroethylene | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| Trichloroethylene | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| Ethylbenzene | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| Total Xylenes | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| Methylene chloride | <0.00528 | 0.00528 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| Chloroform | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| 1,1-Dichloroethane | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| Ethylene bromide | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| 1,1,1-Trichloroethane | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| 1,1,2-Trichloroethane | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| 1,1,2,2-Tetrachloroethane | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| Vinyl chloride | <0.00528 | 0.00106 | 0.00528 | mg/Kg-dry | | 1 | 12/07/15 03:32 PM |
| Surr: 1,2-Dichloroethane-d4 | 106 | 0 | 52-149 | %REC | | 1 | 12/07/15 03:32 PM |
| Surr: 4-Bromofluorobenzene | 99.6 | 0 | 84-118 | %REC | | 1 | 12/07/15 03:32 PM |
| Surr: Dibromofluoromethane | 104 | 0 | 65-135 | %REC | | 1 | 12/07/15 03:32 PM |
| Surr: Toluene-d8 | 91.7 | 0 | 84-116 | %REC | | 1 | 12/07/15 03:32 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.**Date:** 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 2 DP-1
Lab ID: 1512052-05
Collection Date: 12/02/15 02:40 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-----------------------------------|--------|-------|-------|------|-----------------|----|---------------------|
| TRPH | | | | | | | Analyst: ABO |
| Petroleum Hydrocarbons, TR | <10.7 | 5.35 | 10.7 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE | | | | | | | Analyst: JL |
| Cyanide, Total | <0.545 | 0.218 | 0.545 | | mg/Kg-dry | 1 | 12/09/15 05:26 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | Analyst: AV |
| Chloride | 249 | 5.55 | 5.55 | | mg/Kg-dry | 1 | 12/08/15 06:08 PM |
| Fluoride | 13.7 | 1.11 | 1.11 | | mg/Kg-dry | 1 | 12/08/15 06:08 PM |
| Nitrate-N | <5.55 | 5.55 | 5.55 | | mg/Kg-dry | 1 | 12/08/15 06:08 PM |
| Sulfate | 157 | 11.1 | 11.1 | | mg/Kg-dry | 1 | 12/08/15 06:08 PM |
| PH OF SOLID (CORROSION) | | | | | | | Analyst: BJT |
| pH | 8.92 | 0 | 0 | | pH Units@21.3°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE | | | | | | | Analyst: JL |
| Percent Moisture | 10.1 | 0 | 0 | | WT% | 1 | 12/08/15 09:32 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 2 DP-2
Lab ID: 1512052-06
Collection Date: 12/02/15 02:50 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|------|-----------|----|-------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0376 | 0.0151 | 0.0376 | | mg/Kg-dry | 1 | 12/09/15 12:40 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 1.79 | 0.512 | 1.02 | | mg/Kg-dry | 5 | 12/10/15 01:35 PM |
| Barium | 52.1 | 0.512 | 2.05 | | mg/Kg-dry | 5 | 12/10/15 01:35 PM |
| Cadmium | <0.307 | 0.102 | 0.307 | | mg/Kg-dry | 5 | 12/10/15 01:35 PM |
| Chromium | 8.05 | 0.512 | 2.05 | | mg/Kg-dry | 5 | 12/10/15 01:35 PM |
| Copper | 2.02 | 0.512 | 2.05 | J | mg/Kg-dry | 5 | 12/10/15 01:35 PM |
| Iron | 7040 | 128 | 128 | | mg/Kg-dry | 50 | 12/10/15 03:14 PM |
| Lead | 2.97 | 0.102 | 0.307 | | mg/Kg-dry | 5 | 12/10/15 01:35 PM |
| Manganese | 59.8 | 0.512 | 2.05 | | mg/Kg-dry | 5 | 12/10/15 01:35 PM |
| Selenium | 0.374 | 0.153 | 0.512 | J | mg/Kg-dry | 5 | 12/10/15 01:35 PM |
| Silver | <0.205 | 0.102 | 0.205 | | mg/Kg-dry | 5 | 12/10/15 01:35 PM |
| Zinc | 14.7 | 1.02 | 2.56 | | mg/Kg-dry | 5 | 12/10/15 01:35 PM |
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| 1-Methylnaphthalene | <0.0287 | 0.0108 | 0.0287 | N | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 2-Methylnaphthalene | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| Naphthalene | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| Benzo[a]pyrene | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 2,3,4,6-Tetrachlorophenol | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 2,4,5-Trichlorophenol | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 2,4,6-Trichlorophenol | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 2,4-Dichlorophenol | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 2,4-Dimethylphenol | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 2,4-Dinitrophenol | <0.142 | 0.0539 | 0.142 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 2,6-Dichlorophenol | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 2-Chlorophenol | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 2-Methylphenol | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 2-Nitrophenol | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 4,6-Dinitro-2-methylphenol | <0.0711 | 0.0323 | 0.0711 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 4-Chloro-3-methylphenol | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 4-Methylphenol | <0.0287 | 0.0215 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| 4-Nitrophenol | <0.142 | 0.0539 | 0.142 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| Pentachlorophenol | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| Phenol | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| Total Phenol (Calculated) | <0.0287 | 0.0108 | 0.0287 | | mg/Kg-dry | 1 | 12/08/15 11:01 PM |
| Surr: 2,4,6-Tribromophenol | 80.0 | 0 | 45-126 | | %REC | 1 | 12/08/15 11:01 PM |
| Surr: 2-Fluorobiphenyl | 78.0 | 0 | 60-125 | | %REC | 1 | 12/08/15 11:01 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 2 DP-2
Lab ID: 1512052-06
Collection Date: 12/02/15 02:50 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|-----------|-----------|----|-------------------|
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 76.0 | 0 | 37-125 | %REC | | 1 | 12/08/15 11:01 PM |
| Surr: 4-Terphenyl-d14 | 87.0 | 0 | 45-125 | %REC | | 1 | 12/08/15 11:01 PM |
| Surr: Nitrobenzene-d5 | 72.0 | 0 | 45-125 | %REC | | 1 | 12/08/15 11:01 PM |
| Surr: Phenol-d5 | 74.0 | 0 | 40-125 | %REC | | 1 | 12/08/15 11:01 PM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0359 | 0.0180 | 0.0359 | mg/Kg-dry | | 1 | 12/08/15 03:27 PM |
| Aroclor 1221 | <0.0359 | 0.0180 | 0.0359 | mg/Kg-dry | | 1 | 12/08/15 03:27 PM |
| Aroclor 1232 | <0.0359 | 0.0180 | 0.0359 | mg/Kg-dry | | 1 | 12/08/15 03:27 PM |
| Aroclor 1242 | <0.0359 | 0.0180 | 0.0359 | mg/Kg-dry | | 1 | 12/08/15 03:27 PM |
| Aroclor 1248 | <0.0359 | 0.0180 | 0.0359 | mg/Kg-dry | | 1 | 12/08/15 03:27 PM |
| Aroclor 1254 | <0.0359 | 0.0180 | 0.0359 | mg/Kg-dry | | 1 | 12/08/15 03:27 PM |
| Aroclor 1260 | <0.0359 | 0.0180 | 0.0359 | mg/Kg-dry | | 1 | 12/08/15 03:27 PM |
| Polychlorinated biphenyls | <0.0359 | 0.0180 | 0.0359 | N | mg/Kg-dry | 1 | 12/08/15 03:27 PM |
| Surr: 2-Fluorobiphenyl | 84.0 | 0 | 43-125 | %REC | | 1 | 12/08/15 03:27 PM |
| Surr: 4-Terphenyl-d14 | 78.4 | 0 | 32-125 | %REC | | 1 | 12/08/15 03:27 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| Benzene | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| Toluene | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| Carbon tetrachloride | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| 1,2-Dichloroethane | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| 1,1-Dichloroethylene | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| Tetrachloroethylene | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| Trichloroethylene | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| Ethylbenzene | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| Total Xylenes | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| Methylene chloride | <0.00516 | 0.00516 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| Chloroform | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| 1,1-Dichloroethane | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| Ethylene bromide | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| 1,1,1-Trichloroethane | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| 1,1,2-Trichloroethane | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| 1,1,2,2-Tetrachloroethane | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| Vinyl chloride | <0.00516 | 0.00103 | 0.00516 | mg/Kg-dry | | 1 | 12/07/15 04:03 PM |
| Surr: 1,2-Dichloroethane-d4 | 108 | 0 | 52-149 | %REC | | 1 | 12/07/15 04:03 PM |
| Surr: 4-Bromofluorobenzene | 99.2 | 0 | 84-118 | %REC | | 1 | 12/07/15 04:03 PM |
| Surr: Dibromofluoromethane | 104 | 0 | 65-135 | %REC | | 1 | 12/07/15 04:03 PM |
| Surr: Toluene-d8 | 91.9 | 0 | 84-116 | %REC | | 1 | 12/07/15 04:03 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 2 DP-2
Lab ID: 1512052-06
Collection Date: 12/02/15 02:50 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------|-------|------|-----------------|----|-------------------|
| TRPH Petroleum Hydrocarbons, TR | <10.8 | 5.40 | 10.8 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE Cyanide, Total | <0.524 | 0.210 | 0.524 | | mg/Kg-dry | 1 | 12/09/15 05:28 PM |
| ANIONS BY IC METHOD - SOIL Chloride | 486 | 51.6 | 51.6 | | mg/Kg-dry | 10 | 12/09/15 02:08 PM |
| Fluoride | 8.34 | 1.03 | 1.03 | | mg/Kg-dry | 1 | 12/08/15 06:22 PM |
| Nitrate-N | <5.16 | 5.16 | 5.16 | | mg/Kg-dry | 1 | 12/08/15 06:22 PM |
| Sulfate | 402 | 10.3 | 10.3 | | mg/Kg-dry | 1 | 12/08/15 06:22 PM |
| PH OF SOLID (CORROSIONITY) pH | 8.94 | 0 | 0 | | pH Units@21.4°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE Percent Moisture | 7.79 | 0 | 0 | | WT% | 1 | 12/08/15 09:32 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 2 DP-3
Lab ID: 1512052-07
Collection Date: 12/02/15 03:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|------|-----------|----|---------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0354 | 0.0142 | 0.0354 | | mg/Kg-dry | 1 | 12/09/15 12:43 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 1.60 | 0.465 | 0.931 | | mg/Kg-dry | 5 | 12/10/15 01:37 PM |
| Barium | 44.4 | 0.465 | 1.86 | | mg/Kg-dry | 5 | 12/10/15 01:37 PM |
| Cadmium | <0.279 | 0.0931 | 0.279 | | mg/Kg-dry | 5 | 12/10/15 01:37 PM |
| Chromium | 7.35 | 0.465 | 1.86 | | mg/Kg-dry | 5 | 12/10/15 01:37 PM |
| Copper | 2.08 | 0.465 | 1.86 | | mg/Kg-dry | 5 | 12/10/15 01:37 PM |
| Iron | 6530 | 116 | 116 | | mg/Kg-dry | 50 | 12/10/15 03:16 PM |
| Lead | 3.06 | 0.0931 | 0.279 | | mg/Kg-dry | 5 | 12/10/15 01:37 PM |
| Manganese | 65.9 | 0.465 | 1.86 | | mg/Kg-dry | 5 | 12/10/15 01:37 PM |
| Selenium | 0.378 | 0.140 | 0.465 | J | mg/Kg-dry | 5 | 12/10/15 01:37 PM |
| Silver | <0.186 | 0.0931 | 0.186 | | mg/Kg-dry | 5 | 12/10/15 01:37 PM |
| Zinc | 13.4 | 0.931 | 2.33 | | mg/Kg-dry | 5 | 12/10/15 01:37 PM |
| SEMIVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | | | | Analyst: DEW |
| 1-Methylnaphthalene | <0.0274 | 0.0103 | 0.0274 | N | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 2-Methylnaphthalene | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| Naphthalene | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| Benzo[a]pyrene | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 2,3,4,6-Tetrachlorophenol | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 2,4,5-Trichlorophenol | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 2,4,6-Trichlorophenol | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 2,4-Dichlorophenol | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 2,4-Dimethylphenol | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 2,4-Dinitrophenol | <0.136 | 0.0515 | 0.136 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 2,6-Dichlorophenol | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 2-Chlorophenol | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 2-Methylphenol | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 2-Nitrophenol | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 4,6-Dinitro-2-methylphenol | <0.0680 | 0.0309 | 0.0680 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 4-Chloro-3-methylphenol | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 4-Methylphenol | <0.0274 | 0.0206 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| 4-Nitrophenol | <0.136 | 0.0515 | 0.136 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| Pentachlorophenol | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| Phenol | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| Total Phenol (Calculated) | <0.0274 | 0.0103 | 0.0274 | | mg/Kg-dry | 1 | 12/08/15 11:26 PM |
| Surr: 2,4,6-Tribromophenol | 86.0 | 0 | 45-126 | | %REC | 1 | 12/08/15 11:26 PM |
| Surr: 2-Fluorobiphenyl | 81.0 | 0 | 60-125 | | %REC | 1 | 12/08/15 11:26 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 2 DP-3
Lab ID: 1512052-07
Collection Date: 12/02/15 03:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|----------|---------|-----------|-----------|----|-------------------|
| SEMIVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 79.0 | 0 | 37-125 | %REC | | 1 | 12/08/15 11:26 PM |
| Surr: 4-Terphenyl-d14 | 92.0 | 0 | 45-125 | %REC | | 1 | 12/08/15 11:26 PM |
| Surr: Nitrobenzene-d5 | 75.0 | 0 | 45-125 | %REC | | 1 | 12/08/15 11:26 PM |
| Surr: Phenol-d5 | 78.0 | 0 | 40-125 | %REC | | 1 | 12/08/15 11:26 PM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0344 | 0.0172 | 0.0344 | mg/Kg-dry | | 1 | 12/08/15 03:59 PM |
| Aroclor 1221 | <0.0344 | 0.0172 | 0.0344 | mg/Kg-dry | | 1 | 12/08/15 03:59 PM |
| Aroclor 1232 | <0.0344 | 0.0172 | 0.0344 | mg/Kg-dry | | 1 | 12/08/15 03:59 PM |
| Aroclor 1242 | <0.0344 | 0.0172 | 0.0344 | mg/Kg-dry | | 1 | 12/08/15 03:59 PM |
| Aroclor 1248 | <0.0344 | 0.0172 | 0.0344 | mg/Kg-dry | | 1 | 12/08/15 03:59 PM |
| Aroclor 1254 | <0.0344 | 0.0172 | 0.0344 | mg/Kg-dry | | 1 | 12/08/15 03:59 PM |
| Aroclor 1260 | <0.0344 | 0.0172 | 0.0344 | mg/Kg-dry | | 1 | 12/08/15 03:59 PM |
| Polychlorinated biphenyls | <0.0344 | 0.0172 | 0.0344 | N | mg/Kg-dry | 1 | 12/08/15 03:59 PM |
| Surr: 2-Fluorobiphenyl | 94.5 | 0 | 43-125 | %REC | | 1 | 12/08/15 03:59 PM |
| Surr: 4-Terphenyl-d14 | 88.1 | 0 | 32-125 | %REC | | 1 | 12/08/15 03:59 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| Benzene | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| Toluene | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| Carbon tetrachloride | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| 1,2-Dichloroethane | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| 1,1-Dichloroethylene | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| Tetrachloroethylene | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| Trichloroethylene | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| Ethylbenzene | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| Total Xylenes | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| Methylene chloride | <0.00494 | 0.00494 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| Chloroform | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| 1,1-Dichloroethane | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| Ethylene bromide | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| 1,1,1-Trichloroethane | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| 1,1,2-Trichloroethane | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| 1,1,2,2-Tetrachloroethane | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| Vinyl chloride | <0.00494 | 0.000987 | 0.00494 | mg/Kg-dry | | 1 | 12/07/15 04:35 PM |
| Surr: 1,2-Dichloroethane-d4 | 107 | 0 | 52-149 | %REC | | 1 | 12/07/15 04:35 PM |
| Surr: 4-Bromofluorobenzene | 98.3 | 0 | 84-118 | %REC | | 1 | 12/07/15 04:35 PM |
| Surr: Dibromofluoromethane | 102 | 0 | 65-135 | %REC | | 1 | 12/07/15 04:35 PM |
| Surr: Toluene-d8 | 92.8 | 0 | 84-116 | %REC | | 1 | 12/07/15 04:35 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 2 DP-3
Lab ID: 1512052-07
Collection Date: 12/02/15 03:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-----------------------------------|--------|-------|-------|------|-----------------|----|-------------------|
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <10.3 | 5.17 | 10.3 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE | | | | | | | |
| Cyanide, Total | <0.501 | 0.200 | 0.501 | | mg/Kg-dry | 1 | 12/09/15 05:28 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 130 | 4.97 | 4.97 | | mg/Kg-dry | 1 | 12/08/15 06:37 PM |
| Fluoride | 1.72 | 0.995 | 0.995 | | mg/Kg-dry | 1 | 12/08/15 06:37 PM |
| Nitrate-N | <4.97 | 4.97 | 4.97 | | mg/Kg-dry | 1 | 12/08/15 06:37 PM |
| Sulfate | 324 | 9.95 | 9.95 | | mg/Kg-dry | 1 | 12/08/15 06:37 PM |
| PH OF SOLID (CORROSIONITY) | | | | | | | |
| pH | 9.08 | 0 | 0 | | pH Units@21.5°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 4.07 | 0 | 0 | | WT% | 1 | 12/08/15 09:32 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 2 DP-4
Lab ID: 1512052-08
Collection Date: 12/02/15 03:10 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|----------------|-----------|----|---------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0474 | 0.0190 | 0.0474 | | mg/Kg-dry | 1 | 12/09/15 12:45 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 3.60 | 0.575 | 1.15 | | mg/Kg-dry | 5 | 12/10/15 01:39 PM |
| Barium | 1260 | 5.75 | 23.0 | | mg/Kg-dry | 50 | 12/10/15 03:18 PM |
| Cadmium | <0.345 | 0.115 | 0.345 | | mg/Kg-dry | 5 | 12/10/15 01:39 PM |
| Chromium | 7.17 | 0.575 | 2.30 | | mg/Kg-dry | 5 | 12/10/15 01:39 PM |
| Copper | 4.63 | 0.575 | 2.30 | | mg/Kg-dry | 5 | 12/10/15 01:39 PM |
| Iron | 5810 | 144 | 144 | | mg/Kg-dry | 50 | 12/10/15 03:18 PM |
| Lead | 2.93 | 0.115 | 0.345 | | mg/Kg-dry | 5 | 12/10/15 01:39 PM |
| Manganese | 220 | 0.575 | 2.30 | | mg/Kg-dry | 5 | 12/10/15 01:39 PM |
| Selenium | 0.645 | 0.173 | 0.575 | | mg/Kg-dry | 5 | 12/10/15 01:39 PM |
| Silver | <0.230 | 0.115 | 0.230 | | mg/Kg-dry | 5 | 12/10/15 01:39 PM |
| Zinc | 11.8 | 1.15 | 2.88 | | mg/Kg-dry | 5 | 12/10/15 01:39 PM |
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | | Analyst: DEW |
| 1-Methylnaphthalene | <0.0321 | 0.0121 | 0.0321 | N | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 2-Methylnaphthalene | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| Naphthalene | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| Benzo[a]pyrene | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 2,3,4,6-Tetrachlorophenol | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 2,4,5-Trichlorophenol | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 2,4,6-Trichlorophenol | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 2,4-Dichlorophenol | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 2,4-Dimethylphenol | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 2,4-Dinitrophenol | <0.159 | 0.0603 | 0.159 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 2,6-Dichlorophenol | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 2-Chlorophenol | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 2-Methylphenol | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 2-Nitrophenol | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 4,6-Dinitro-2-methylphenol | <0.0795 | 0.0362 | 0.0795 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 4-Chloro-3-methylphenol | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 4-Methylphenol | <0.0321 | 0.0241 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| 4-Nitrophenol | <0.159 | 0.0603 | 0.159 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| Pentachlorophenol | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| Phenol | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| Total Phenol (Calculated) | <0.0321 | 0.0121 | 0.0321 | | mg/Kg-dry | 1 | 12/08/15 11:51 PM |
| Surr: 2,4,6-Tribromophenol | 73.0 | 0 | 45-126 | | %REC | 1 | 12/08/15 11:51 PM |
| Surr: 2-Fluorobiphenyl | 68.0 | 0 | 60-125 | | %REC | 1 | 12/08/15 11:51 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 2 DP-4
Lab ID: 1512052-08
Collection Date: 12/02/15 03:10 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|-----------|-----------|----|-------------------|
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 68.0 | 0 | 37-125 | %REC | | 1 | 12/08/15 11:51 PM |
| Surr: 4-Terphenyl-d14 | 81.0 | 0 | 45-125 | %REC | | 1 | 12/08/15 11:51 PM |
| Surr: Nitrobenzene-d5 | 64.0 | 0 | 45-125 | %REC | | 1 | 12/08/15 11:51 PM |
| Surr: Phenol-d5 | 66.0 | 0 | 40-125 | %REC | | 1 | 12/08/15 11:51 PM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0402 | 0.0201 | 0.0402 | mg/Kg-dry | | 1 | 12/08/15 04:30 PM |
| Aroclor 1221 | <0.0402 | 0.0201 | 0.0402 | mg/Kg-dry | | 1 | 12/08/15 04:30 PM |
| Aroclor 1232 | <0.0402 | 0.0201 | 0.0402 | mg/Kg-dry | | 1 | 12/08/15 04:30 PM |
| Aroclor 1242 | <0.0402 | 0.0201 | 0.0402 | mg/Kg-dry | | 1 | 12/08/15 04:30 PM |
| Aroclor 1248 | <0.0402 | 0.0201 | 0.0402 | mg/Kg-dry | | 1 | 12/08/15 04:30 PM |
| Aroclor 1254 | <0.0402 | 0.0201 | 0.0402 | mg/Kg-dry | | 1 | 12/08/15 04:30 PM |
| Aroclor 1260 | <0.0402 | 0.0201 | 0.0402 | mg/Kg-dry | | 1 | 12/08/15 04:30 PM |
| Polychlorinated biphenyls | <0.0402 | 0.0201 | 0.0402 | N | mg/Kg-dry | 1 | 12/08/15 04:30 PM |
| Surr: 2-Fluorobiphenyl | 90.3 | 0 | 43-125 | %REC | | 1 | 12/08/15 04:30 PM |
| Surr: 4-Terphenyl-d14 | 86.8 | 0 | 32-125 | %REC | | 1 | 12/08/15 04:30 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| Benzene | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| Toluene | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| Carbon tetrachloride | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| 1,2-Dichloroethane | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| 1,1-Dichloroethylene | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| Tetrachloroethylene | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| Trichloroethylene | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| Ethylbenzene | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| Total Xylenes | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| Methylene chloride | <0.00579 | 0.00579 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| Chloroform | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| 1,1-Dichloroethane | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| Ethylene bromide | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| 1,1,1-Trichloroethane | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| 1,1,2-Trichloroethane | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| 1,1,2,2-Tetrachloroethane | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| Vinyl chloride | <0.00579 | 0.00116 | 0.00579 | mg/Kg-dry | | 1 | 12/07/15 05:06 PM |
| Surr: 1,2-Dichloroethane-d4 | 105 | 0 | 52-149 | %REC | | 1 | 12/07/15 05:06 PM |
| Surr: 4-Bromofluorobenzene | 99.0 | 0 | 84-118 | %REC | | 1 | 12/07/15 05:06 PM |
| Surr: Dibromofluoromethane | 104 | 0 | 65-135 | %REC | | 1 | 12/07/15 05:06 PM |
| Surr: Toluene-d8 | 92.8 | 0 | 84-116 | %REC | | 1 | 12/07/15 05:06 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.**Date:** 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 2 DP-4
Lab ID: 1512052-08
Collection Date: 12/02/15 03:10 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|---|--------|-------|-------|------|-----------------|----|-------------------|
| TRPH Petroleum Hydrocarbons, TR | <12.2 | 6.09 | 12.2 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE Cyanide, Total | <0.618 | 0.247 | 0.618 | | mg/Kg-dry | 1 | 12/09/15 05:28 PM |
| ANIONS BY IC METHOD - SOIL Chloride | 10.6 | 6.09 | 6.09 | | mg/Kg-dry | 1 | 12/08/15 07:21 PM |
| Fluoride | 11.7 | 1.22 | 1.22 | | mg/Kg-dry | 1 | 12/08/15 07:21 PM |
| Nitrate-N | <6.09 | 6.09 | 6.09 | | mg/Kg-dry | 1 | 12/08/15 07:21 PM |
| Sulfate | 111 | 12.2 | 12.2 | | mg/Kg-dry | 1 | 12/08/15 07:21 PM |
| PH OF SOLID (CORROSION) pH | 9.30 | 0 | 0 | | pH Units@21.2°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE Percent Moisture | 19.6 | 0 | 0 | | WT% | 1 | 12/08/15 09:32 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 3 DP-1
Lab ID: 1512052-09
Collection Date: 12/02/15 03:40 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|----------------|-----------|---------------------|-------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0415 | 0.0166 | 0.0415 | | mg/Kg-dry | 1 | 12/09/15 12:47 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 3.19 | 0.487 | 0.974 | | mg/Kg-dry | 5 | 12/10/15 01:41 PM |
| Barium | 1110 | 4.87 | 19.5 | | mg/Kg-dry | 50 | 12/10/15 03:20 PM |
| Cadmium | <0.292 | 0.0974 | 0.292 | | mg/Kg-dry | 5 | 12/10/15 01:41 PM |
| Chromium | 6.93 | 0.487 | 1.95 | | mg/Kg-dry | 5 | 12/10/15 01:41 PM |
| Copper | 3.46 | 0.487 | 1.95 | | mg/Kg-dry | 5 | 12/10/15 01:41 PM |
| Iron | 6250 | 122 | 122 | | mg/Kg-dry | 50 | 12/10/15 03:20 PM |
| Lead | 3.13 | 0.0974 | 0.292 | | mg/Kg-dry | 5 | 12/10/15 01:41 PM |
| Manganese | 168 | 0.487 | 1.95 | | mg/Kg-dry | 5 | 12/10/15 01:41 PM |
| Selenium | 0.470 | 0.146 | 0.487 | J | mg/Kg-dry | 5 | 12/10/15 01:41 PM |
| Silver | <0.195 | 0.0974 | 0.195 | | mg/Kg-dry | 5 | 12/10/15 01:41 PM |
| Zinc | 11.0 | 0.974 | 2.43 | | mg/Kg-dry | 5 | 12/10/15 01:41 PM |
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | Analyst: DEW | |
| 1-Methylnaphthalene | <0.0288 | 0.0108 | 0.0288 | N | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 2-Methylnaphthalene | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| Naphthalene | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| Benzo[a]pyrene | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 2,3,4,6-Tetrachlorophenol | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 2,4,5-Trichlorophenol | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 2,4,6-Trichlorophenol | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 2,4-Dichlorophenol | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 2,4-Dimethylphenol | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 2,4-Dinitrophenol | <0.143 | 0.0542 | 0.143 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 2,6-Dichlorophenol | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 2-Chlorophenol | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 2-Methylphenol | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 2-Nitrophenol | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 4,6-Dinitro-2-methylphenol | <0.0715 | 0.0325 | 0.0715 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 4-Chloro-3-methylphenol | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 4-Methylphenol | <0.0288 | 0.0217 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| 4-Nitrophenol | <0.143 | 0.0542 | 0.143 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| Pentachlorophenol | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| Phenol | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| Total Phenol (Calculated) | <0.0288 | 0.0108 | 0.0288 | | mg/Kg-dry | 1 | 12/09/15 12:16 AM |
| Surr: 2,4,6-Tribromophenol | 84.0 | 0 | 45-126 | | %REC | 1 | 12/09/15 12:16 AM |
| Surr: 2-Fluorobiphenyl | 71.0 | 0 | 60-125 | | %REC | 1 | 12/09/15 12:16 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 3 DP-1
Lab ID: 1512052-09
Collection Date: 12/02/15 03:40 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|-----------|-----------|----|-------------------|
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 77.0 | 0 | 37-125 | %REC | | 1 | 12/09/15 12:16 AM |
| Surr: 4-Terphenyl-d14 | 87.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 12:16 AM |
| Surr: Nitrobenzene-d5 | 67.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 12:16 AM |
| Surr: Phenol-d5 | 70.0 | 0 | 40-125 | %REC | | 1 | 12/09/15 12:16 AM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0361 | 0.0181 | 0.0361 | mg/Kg-dry | | 1 | 12/08/15 05:02 PM |
| Aroclor 1221 | <0.0361 | 0.0181 | 0.0361 | mg/Kg-dry | | 1 | 12/08/15 05:02 PM |
| Aroclor 1232 | <0.0361 | 0.0181 | 0.0361 | mg/Kg-dry | | 1 | 12/08/15 05:02 PM |
| Aroclor 1242 | <0.0361 | 0.0181 | 0.0361 | mg/Kg-dry | | 1 | 12/08/15 05:02 PM |
| Aroclor 1248 | <0.0361 | 0.0181 | 0.0361 | mg/Kg-dry | | 1 | 12/08/15 05:02 PM |
| Aroclor 1254 | <0.0361 | 0.0181 | 0.0361 | mg/Kg-dry | | 1 | 12/08/15 05:02 PM |
| Aroclor 1260 | <0.0361 | 0.0181 | 0.0361 | mg/Kg-dry | | 1 | 12/08/15 05:02 PM |
| Polychlorinated biphenyls | <0.0361 | 0.0181 | 0.0361 | N | mg/Kg-dry | 1 | 12/08/15 05:02 PM |
| Surr: 2-Fluorobiphenyl | 91.8 | 0 | 43-125 | %REC | | 1 | 12/08/15 05:02 PM |
| Surr: 4-Terphenyl-d14 | 91.0 | 0 | 32-125 | %REC | | 1 | 12/08/15 05:02 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| Benzene | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| Toluene | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| Carbon tetrachloride | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| 1,2-Dichloroethane | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| 1,1-Dichloroethylene | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| Tetrachloroethylene | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| Trichloroethylene | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| Ethylbenzene | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| Total Xylenes | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| Methylene chloride | <0.00559 | 0.00559 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| Chloroform | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| 1,1-Dichloroethane | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| Ethylene bromide | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| 1,1,1-Trichloroethane | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| 1,1,2-Trichloroethane | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| 1,1,2,2-Tetrachloroethane | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| Vinyl chloride | <0.00559 | 0.00112 | 0.00559 | mg/Kg-dry | | 1 | 12/07/15 05:37 PM |
| Surr: 1,2-Dichloroethane-d4 | 109 | 0 | 52-149 | %REC | | 1 | 12/07/15 05:37 PM |
| Surr: 4-Bromofluorobenzene | 99.2 | 0 | 84-118 | %REC | | 1 | 12/07/15 05:37 PM |
| Surr: Dibromofluoromethane | 107 | 0 | 65-135 | %REC | | 1 | 12/07/15 05:37 PM |
| Surr: Toluene-d8 | 91.6 | 0 | 84-116 | %REC | | 1 | 12/07/15 05:37 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.**Date:** 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 3 DP-1
Lab ID: 1512052-09
Collection Date: 12/02/15 03:40 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-----------------------------------|--------|-------|-------|------|---------------|----|-------------------|
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <11.3 | 5.65 | 11.3 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE | | | | | | | |
| Cyanide, Total | <0.560 | 0.224 | 0.560 | | mg/Kg-dry | 1 | 12/09/15 05:28 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 790 | 55.1 | 55.1 | | mg/Kg-dry | 10 | 12/09/15 02:22 PM |
| Fluoride | 3.33 | 1.10 | 1.10 | | mg/Kg-dry | 1 | 12/08/15 07:35 PM |
| Nitrate-N | <5.51 | 5.51 | 5.51 | | mg/Kg-dry | 1 | 12/08/15 07:35 PM |
| Sulfate | 258 | 11.0 | 11.0 | | mg/Kg-dry | 1 | 12/08/15 07:35 PM |
| PH OF SOLID (CORROSION) | | | | | | | |
| pH | 7.93 | 0 | 0 | | pH Units@21°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 13.0 | 0 | 0 | | WT% | 1 | 12/08/15 09:32 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 3 DP-2
Lab ID: 1512052-10
Collection Date: 12/02/15 03:50 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|----------------|-----------|----|---------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0398 | 0.0159 | 0.0398 | | mg/Kg-dry | 1 | 12/09/15 12:49 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 4.19 | 0.542 | 1.08 | | mg/Kg-dry | 5 | 12/10/15 01:43 PM |
| Barium | 1100 | 5.42 | 21.7 | | mg/Kg-dry | 50 | 12/10/15 03:22 PM |
| Cadmium | <0.325 | 0.108 | 0.325 | | mg/Kg-dry | 5 | 12/10/15 01:43 PM |
| Chromium | 12.7 | 0.542 | 2.17 | | mg/Kg-dry | 5 | 12/10/15 01:43 PM |
| Copper | 5.38 | 0.542 | 2.17 | | mg/Kg-dry | 5 | 12/10/15 01:43 PM |
| Iron | 10900 | 136 | 136 | | mg/Kg-dry | 50 | 12/10/15 03:22 PM |
| Lead | 5.17 | 0.108 | 0.325 | | mg/Kg-dry | 5 | 12/10/15 01:43 PM |
| Manganese | 171 | 0.542 | 2.17 | | mg/Kg-dry | 5 | 12/10/15 01:43 PM |
| Selenium | 0.913 | 0.163 | 0.542 | | mg/Kg-dry | 5 | 12/10/15 01:43 PM |
| Silver | <0.217 | 0.108 | 0.217 | | mg/Kg-dry | 5 | 12/10/15 01:43 PM |
| Zinc | 17.0 | 1.08 | 2.71 | | mg/Kg-dry | 5 | 12/10/15 01:43 PM |
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | | Analyst: DEW |
| 1-Methylnaphthalene | <0.0304 | 0.0114 | 0.0304 | N | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 2-Methylnaphthalene | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| Naphthalene | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| Benzo[a]pyrene | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 2,3,4,6-Tetrachlorophenol | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 2,4,5-Trichlorophenol | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 2,4,6-Trichlorophenol | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 2,4-Dichlorophenol | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 2,4-Dimethylphenol | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 2,4-Dinitrophenol | <0.151 | 0.0572 | 0.151 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 2,6-Dichlorophenol | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 2-Chlorophenol | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 2-Methylphenol | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 2-Nitrophenol | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 4,6-Dinitro-2-methylphenol | <0.0755 | 0.0343 | 0.0755 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 4-Chloro-3-methylphenol | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 4-Methylphenol | <0.0304 | 0.0229 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| 4-Nitrophenol | <0.151 | 0.0572 | 0.151 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| Pentachlorophenol | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| Phenol | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| Total Phenol (Calculated) | <0.0304 | 0.0114 | 0.0304 | | mg/Kg-dry | 1 | 12/09/15 12:41 AM |
| Surr: 2,4,6-Tribromophenol | 84.0 | 0 | 45-126 | %REC | | 1 | 12/09/15 12:41 AM |
| Surr: 2-Fluorobiphenyl | 70.0 | 0 | 60-125 | %REC | | 1 | 12/09/15 12:41 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Casc Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analytic detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 3 DP-2
Lab ID: 1512052-10
Collection Date: 12/02/15 03:50 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|-----------|-----------|----|-------------------|
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 76.0 | 0 | 37-125 | %REC | | 1 | 12/09/15 12:41 AM |
| Surr: 4-Terphenyl-d14 | 87.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 12:41 AM |
| Surr: Nitrobenzene-d5 | 72.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 12:41 AM |
| Surr: Phenol-d5 | 75.0 | 0 | 40-125 | %REC | | 1 | 12/09/15 12:41 AM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0381 | 0.0191 | 0.0381 | mg/Kg-dry | | 1 | 12/08/15 05:33 PM |
| Aroclor 1221 | <0.0381 | 0.0191 | 0.0381 | mg/Kg-dry | | 1 | 12/08/15 05:33 PM |
| Aroclor 1232 | <0.0381 | 0.0191 | 0.0381 | mg/Kg-dry | | 1 | 12/08/15 05:33 PM |
| Aroclor 1242 | <0.0381 | 0.0191 | 0.0381 | mg/Kg-dry | | 1 | 12/08/15 05:33 PM |
| Aroclor 1248 | <0.0381 | 0.0191 | 0.0381 | mg/Kg-dry | | 1 | 12/08/15 05:33 PM |
| Aroclor 1254 | <0.0381 | 0.0191 | 0.0381 | mg/Kg-dry | | 1 | 12/08/15 05:33 PM |
| Aroclor 1260 | <0.0381 | 0.0191 | 0.0381 | mg/Kg-dry | | 1 | 12/08/15 05:33 PM |
| Polychlorinated biphenyls | <0.0381 | 0.0191 | 0.0381 | N | mg/Kg-dry | 1 | 12/08/15 05:33 PM |
| Surr: 2-Fluorobiphenyl | 93.0 | 0 | 43-125 | %REC | | 1 | 12/08/15 05:33 PM |
| Surr: 4-Terphenyl-d14 | 87.0 | 0 | 32-125 | %REC | | 1 | 12/08/15 05:33 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| Benzene | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| Toluene | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| Carbon tetrachloride | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| 1,2-Dichloroethane | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| 1,1-Dichloroethylene | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| Tetrachloroethylene | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| Trichloroethylene | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| Ethylbenzene | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| Total Xylenes | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| Methylene chloride | <0.00570 | 0.00570 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| Chloroform | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| 1,1-Dichloroethane | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| Ethylene bromide | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| 1,1,1-Trichloroethane | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| 1,1,2-Trichloroethane | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| 1,1,2,2-Tetrachloroethane | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| Vinyl chloride | <0.00570 | 0.00114 | 0.00570 | mg/Kg-dry | | 1 | 12/07/15 06:08 PM |
| Surr: 1,2-Dichloroethane-d4 | 112 | 0 | 52-149 | %REC | | 1 | 12/07/15 06:08 PM |
| Surr: 4-Bromofluorobenzene | 99.9 | 0 | 84-118 | %REC | | 1 | 12/07/15 06:08 PM |
| Surr: Dibromofluoromethane | 106 | 0 | 65-135 | %REC | | 1 | 12/07/15 06:08 PM |
| Surr: Toluene-d8 | 92.0 | 0 | 84-116 | %REC | | 1 | 12/07/15 06:08 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Dec-15

CLIENT: Larson & Associates **Client Sample ID:** Cell 3 DP-2
Project: R360 Artesia Landfarm **Lab ID:** 1512052-10
Project No: 15-0121-01 **Collection Date:** 12/02/15 03:50 PM
Lab Order: 1512052 **Matrix:** SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-----------------------------------|--------|-------|-------|------|-----------------|----|-------------------|
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <11.2 | 5.60 | 11.2 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE | | | | | | | |
| Cyanide, Total | <0.553 | 0.221 | 0.553 | | mg/Kg-dry | 1 | 12/09/15 05:30 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 958 | 54.7 | 54.7 | | mg/Kg-dry | 10 | 12/09/15 02:37 PM |
| Fluoride | 3.70 | 1.09 | 1.09 | | mg/Kg-dry | 1 | 12/09/15 09:15 AM |
| Nitrate-N | <5.47 | 5.47 | 5.47 | | mg/Kg-dry | 1 | 12/09/15 09:15 AM |
| Sulfate | 244 | 10.9 | 10.9 | | mg/Kg-dry | 1 | 12/09/15 09:15 AM |
| PH OF SOLID (CORROSION) | | | | | | | |
| pH | 7.96 | 0 | 0 | | pH Units@20.8°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 13.9 | 0 | 0 | | WT% | 1 | 12/08/15 09:32 AM |

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified

- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Dec-15

CLIENT: Larson & Associates **Client Sample ID:** Cell 3 DP-3
Project: R360 Artesia Landfarm **Lab ID:** 1512052-11
Project No: 15-0121-01 **Collection Date:** 12/02/15 04:00 PM
Lab Order: 1512052 **Matrix:** SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|----------------|-----------|--------------|-------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0366 | 0.0146 | 0.0366 | | mg/Kg-dry | 1 | 12/09/15 12:56 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 1.89 | 0.480 | 0.960 | | mg/Kg-dry | 5 | 12/10/15 12:55 PM |
| Barium | 63.9 | 0.480 | 1.92 | | mg/Kg-dry | 5 | 12/10/15 12:55 PM |
| Cadmium | <0.288 | 0.0960 | 0.288 | | mg/Kg-dry | 5 | 12/10/15 12:55 PM |
| Chromium | 12.5 | 0.480 | 1.92 | | mg/Kg-dry | 5 | 12/10/15 12:55 PM |
| Copper | 2.28 | 0.480 | 1.92 | | mg/Kg-dry | 5 | 12/10/15 12:55 PM |
| Iron | 9770 | 120 | 120 | | mg/Kg-dry | 50 | 12/10/15 02:42 PM |
| Lead | 5.18 | 0.0960 | 0.288 | | mg/Kg-dry | 5 | 12/10/15 12:55 PM |
| Manganese | 57.4 | 0.480 | 1.92 | | mg/Kg-dry | 5 | 12/10/15 12:55 PM |
| Selenium | 0.650 | 0.144 | 0.480 | | mg/Kg-dry | 5 | 12/10/15 12:55 PM |
| Silver | <0.192 | 0.0960 | 0.192 | | mg/Kg-dry | 5 | 12/10/15 12:55 PM |
| Zinc | 23.0 | 0.960 | 2.40 | | mg/Kg-dry | 5 | 12/10/15 12:55 PM |
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | Analyst: DEW | |
| 1-Methylnaphthalene | <0.0291 | 0.0109 | 0.0291 | N | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 2-Methylnaphthalene | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| Naphthalene | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| Benzo[a]pyrene | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 2,3,4,6-Tetrachlorophenol | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 2,4,5-Trichlorophenol | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 2,4,6-Trichlorophenol | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 2,4-Dichlorophenol | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 2,4-Dimethylphenol | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 2,4-Dinitrophenol | <0.144 | 0.0547 | 0.144 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 2,6-Dichlorophenol | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 2-Chlorophenol | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 2-Methylphenol | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 2-Nitrophenol | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 4,6-Dinitro-2-methylphenol | <0.0721 | 0.0328 | 0.0721 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 4-Chloro-3-methylphenol | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 4-Methylphenol | <0.0291 | 0.0219 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| 4-Nitrophenol | <0.144 | 0.0547 | 0.144 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| Pentachlorophenol | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| Phenol | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| Total Phenol (Calculated) | <0.0291 | 0.0109 | 0.0291 | | mg/Kg-dry | 1 | 12/09/15 01:06 AM |
| Surr: 2,4,6-Tribromophenol | 90.0 | 0 | 45-126 | | %REC | 1 | 12/09/15 01:06 AM |
| Surr: 2-Fluorobiphenyl | 80.0 | 0 | 60-125 | | %REC | 1 | 12/09/15 01:06 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 3 DP-3
Lab ID: 1512052-11
Collection Date: 12/02/15 04:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|----------|---------|-----------|-----------|----|-------------------|
| SEMIVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 78.0 | 0 | 37-125 | %REC | | 1 | 12/09/15 01:06 AM |
| Surr: 4-Terphenyl-d14 | 94.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 01:06 AM |
| Surr: Nitrobenzene-d5 | 73.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 01:06 AM |
| Surr: Phenol-d5 | 80.0 | 0 | 40-125 | %REC | | 1 | 12/09/15 01:06 AM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0364 | 0.0182 | 0.0364 | mg/Kg-dry | | 1 | 12/08/15 06:05 PM |
| Aroclor 1221 | <0.0364 | 0.0182 | 0.0364 | mg/Kg-dry | | 1 | 12/08/15 06:05 PM |
| Aroclor 1232 | <0.0364 | 0.0182 | 0.0364 | mg/Kg-dry | | 1 | 12/08/15 06:05 PM |
| Aroclor 1242 | <0.0364 | 0.0182 | 0.0364 | mg/Kg-dry | | 1 | 12/08/15 06:05 PM |
| Aroclor 1248 | <0.0364 | 0.0182 | 0.0364 | mg/Kg-dry | | 1 | 12/08/15 06:05 PM |
| Aroclor 1254 | <0.0364 | 0.0182 | 0.0364 | mg/Kg-dry | | 1 | 12/08/15 06:05 PM |
| Aroclor 1260 | <0.0364 | 0.0182 | 0.0364 | mg/Kg-dry | | 1 | 12/08/15 06:05 PM |
| Polychlorinated biphenyls | <0.0364 | 0.0182 | 0.0364 | N | mg/Kg-dry | 1 | 12/08/15 06:05 PM |
| Surr: 2-Fluorobiphenyl | 106 | 0 | 43-125 | %REC | | 1 | 12/08/15 06:05 PM |
| Surr: 4-Terphenyl-d14 | 98.7 | 0 | 32-125 | %REC | | 1 | 12/08/15 06:05 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| Benzene | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| Toluene | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| Carbon tetrachloride | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| 1,2-Dichloroethane | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| 1,1-Dichloroethylene | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| Tetrachloroethylene | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| Trichloroethylene | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| Ethylbenzene | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| Total Xylenes | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| Methylene chloride | <0.00499 | 0.00499 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| Chloroform | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| 1,1-Dichloroethane | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| Ethylene bromide | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| 1,1,1-Trichloroethane | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| 1,1,2-Trichloroethane | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| 1,1,2,2-Tetrachloroethane | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| Vinyl chloride | <0.00499 | 0.000999 | 0.00499 | mg/Kg-dry | | 1 | 12/07/15 06:39 PM |
| Surr: 1,2-Dichloroethane-d4 | 107 | 0 | 52-149 | %REC | | 1 | 12/07/15 06:39 PM |
| Surr: 4-Bromofluorobenzene | 99.5 | 0 | 84-118 | %REC | | 1 | 12/07/15 06:39 PM |
| Surr: Dibromofluoromethane | 106 | 0 | 65-135 | %REC | | 1 | 12/07/15 06:39 PM |
| Surr: Toluene-d8 | 91.9 | 0 | 84-116 | %REC | | 1 | 12/07/15 06:39 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Casc Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.**Date:** 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 3 DP-3
Lab ID: 1512052-11
Collection Date: 12/02/15 04:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-----------------------------------|--------|-------|-------|------|-----------------|----|-------------------|
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <10.7 | 5.36 | 10.7 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE | | | | | | | |
| Cyanide, Total | <0.547 | 0.219 | 0.547 | | mg/Kg-dry | 1 | 12/09/15 05:30 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 701 | 50.3 | 50.3 | | mg/Kg-dry | 10 | 12/09/15 02:51 PM |
| Fluoride | 2.04 | 1.01 | 1.01 | | mg/Kg-dry | 1 | 12/09/15 10:16 AM |
| Nitrate-N | <5.03 | 5.03 | 5.03 | | mg/Kg-dry | 1 | 12/09/15 10:16 AM |
| Sulfate | 44.9 | 10.1 | 10.1 | | mg/Kg-dry | 1 | 12/09/15 10:16 AM |
| PH OF SOLID (CORROSION) | | | | | | | |
| pH | 7.64 | 0 | 0 | | pH Units@21.1°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 8.64 | 0 | 0 | | WT% | 1 | 12/08/15 09:32 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 3 DP-4
Lab ID: 1512052-12
Collection Date: 12/02/15 04:10 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|----------------|-----------|----|---------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0466 | 0.0187 | 0.0466 | | mg/Kg-dry | 1 | 12/09/15 12:58 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 8.35 | 0.498 | 0.997 | | mg/Kg-dry | 5 | 12/10/15 12:57 PM |
| Barium | 1910 | 4.98 | 19.9 | | mg/Kg-dry | 50 | 12/10/15 02:44 PM |
| Cadmium | <0.299 | 0.0997 | 0.299 | | mg/Kg-dry | 5 | 12/10/15 12:57 PM |
| Chromium | 25.0 | 0.498 | 1.99 | | mg/Kg-dry | 5 | 12/10/15 12:57 PM |
| Copper | 9.13 | 0.498 | 1.99 | | mg/Kg-dry | 5 | 12/10/15 12:57 PM |
| Iron | 20300 | 125 | 125 | | mg/Kg-dry | 50 | 12/10/15 02:44 PM |
| Lead | 8.87 | 0.0997 | 0.299 | | mg/Kg-dry | 5 | 12/10/15 12:57 PM |
| Manganese | 190 | 0.498 | 1.99 | | mg/Kg-dry | 5 | 12/10/15 12:57 PM |
| Selenium | 1.27 | 0.150 | 0.498 | | mg/Kg-dry | 5 | 12/10/15 12:57 PM |
| Silver | <0.199 | 0.0997 | 0.199 | | mg/Kg-dry | 5 | 12/10/15 12:57 PM |
| Zinc | 37.2 | 0.997 | 2.49 | | mg/Kg-dry | 5 | 12/10/15 12:57 PM |
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | | Analyst: DEW |
| 1-Methylnaphthalene | <0.0317 | 0.0119 | 0.0317 | N | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 2-Methylnaphthalene | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| Naphthalene | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| Benzo[a]pyrene | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 2,3,4,6-Tetrachlorophenol | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 2,4,5-Trichlorophenol | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 2,4,6-Trichlorophenol | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 2,4-Dichlorophenol | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 2,4-Dimethylphenol | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 2,4-Dinitrophenol | <0.157 | 0.0595 | 0.157 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 2,6-Dichlorophenol | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 2-Chlorophenol | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 2-Methylphenol | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 2-Nitrophenol | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 4,6-Dinitro-2-methylphenol | <0.0786 | 0.0357 | 0.0786 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 4-Chloro-3-methylphenol | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 4-Methylphenol | <0.0317 | 0.0238 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| 4-Nitrophenol | <0.157 | 0.0595 | 0.157 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| Pentachlorophenol | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| Phenol | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| Total Phenol (Calculated) | <0.0317 | 0.0119 | 0.0317 | | mg/Kg-dry | 1 | 12/09/15 01:30 AM |
| Surr: 2,4,6-Tribromophenol | 80.0 | 0 | 45-126 | | %REC | 1 | 12/09/15 01:30 AM |
| Surr: 2-Fluorobiphenyl | 76.0 | 0 | 60-125 | | %REC | 1 | 12/09/15 01:30 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 3 DP-4
Lab ID: 1512052-12
Collection Date: 12/02/15 04:10 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|-----------|-----------|----|-------------------|
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 75.0 | 0 | 37-125 | %REC | | 1 | 12/09/15 01:30 AM |
| Surr: 4-Terphenyl-d14 | 86.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 01:30 AM |
| Surr: Nitrobenzene-d5 | 71.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 01:30 AM |
| Surr: Phenol-d5 | 73.0 | 0 | 40-125 | %REC | | 1 | 12/09/15 01:30 AM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0397 | 0.0198 | 0.0397 | mg/Kg-dry | | 1 | 12/08/15 06:36 PM |
| Aroclor 1221 | <0.0397 | 0.0198 | 0.0397 | mg/Kg-dry | | 1 | 12/08/15 06:36 PM |
| Aroclor 1232 | <0.0397 | 0.0198 | 0.0397 | mg/Kg-dry | | 1 | 12/08/15 06:36 PM |
| Aroclor 1242 | <0.0397 | 0.0198 | 0.0397 | mg/Kg-dry | | 1 | 12/08/15 06:36 PM |
| Aroclor 1248 | <0.0397 | 0.0198 | 0.0397 | mg/Kg-dry | | 1 | 12/08/15 06:36 PM |
| Aroclor 1254 | <0.0397 | 0.0198 | 0.0397 | mg/Kg-dry | | 1 | 12/08/15 06:36 PM |
| Aroclor 1260 | <0.0397 | 0.0198 | 0.0397 | mg/Kg-dry | | 1 | 12/08/15 06:36 PM |
| Polychlorinated biphenyls | <0.0397 | 0.0198 | 0.0397 | N | mg/Kg-dry | 1 | 12/08/15 06:36 PM |
| Surr: 2-Fluorobiphenyl | 94.1 | 0 | 43-125 | %REC | | 1 | 12/08/15 06:36 PM |
| Surr: 4-Terphenyl-d14 | 88.5 | 0 | 32-125 | %REC | | 1 | 12/08/15 06:36 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| Benzene | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| Toluene | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| Carbon tetrachloride | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| 1,2-Dichloroethane | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| 1,1-Dichloroethylene | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| Tetrachloroethylene | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| Trichloroethylene | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| Ethylbenzene | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| Total Xylenes | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| Methylene chloride | <0.00557 | 0.00557 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| Chloroform | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| 1,1-Dichloroethane | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| Ethylene bromide | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| 1,1,1-Trichloroethane | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| 1,1,2-Trichloroethane | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| 1,1,2,2-Tetrachloroethane | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| Vinyl chloride | <0.00557 | 0.00111 | 0.00557 | mg/Kg-dry | | 1 | 12/07/15 07:10 PM |
| Surr: 1,2-Dichloroethane-d4 | 111 | 0 | 52-149 | %REC | | 1 | 12/07/15 07:10 PM |
| Surr: 4-Bromofluorobenzene | 99.7 | 0 | 84-118 | %REC | | 1 | 12/07/15 07:10 PM |
| Surr: Dibromofluoromethane | 106 | 0 | 65-135 | %REC | | 1 | 12/07/15 07:10 PM |
| Surr: Toluene-d8 | 91.3 | 0 | 84-116 | %REC | | 1 | 12/07/15 07:10 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 3 DP-4
Lab ID: 1512052-12
Collection Date: 12/02/15 04:10 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-----------------------------------|--------|-------|-------|------|-----------------|----|-------------------|
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <11.9 | 5.93 | 11.9 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE | | | | | | | |
| Cyanide, Total | <0.608 | 0.243 | 0.608 | | mg/Kg-dry | 1 | 12/09/15 05:30 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 31.5 | 5.95 | 5.95 | | mg/Kg-dry | 1 | 12/09/15 10:31 AM |
| Fluoride | 17.2 | 1.19 | 1.19 | | mg/Kg-dry | 1 | 12/09/15 10:31 AM |
| Nitrate-N | <5.95 | 5.95 | 5.95 | | mg/Kg-dry | 1 | 12/09/15 10:31 AM |
| Sulfate | 241 | 11.9 | 11.9 | | mg/Kg-dry | 1 | 12/09/15 10:31 AM |
| PH OF SOLID (CORROSION) | | | | | | | |
| pH | 8.41 | 0 | 0 | | pH Units@21.2°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 17.8 | 0 | 0 | | WT% | 1 | 12/08/15 09:32 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 4 DP-1
Lab ID: 1512052-13
Collection Date: 12/02/15 04:40 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|----------------|-----------|----|---------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0402 | 0.0161 | 0.0402 | | mg/Kg-dry | 1 | 12/09/15 01:01 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 1.96 | 0.440 | 0.879 | | mg/Kg-dry | 5 | 12/10/15 12:59 PM |
| Barium | 78.9 | 0.440 | 1.76 | | mg/Kg-dry | 5 | 12/10/15 12:59 PM |
| Cadmium | <0.264 | 0.0879 | 0.264 | | mg/Kg-dry | 5 | 12/10/15 12:59 PM |
| Chromium | 6.93 | 0.440 | 1.76 | | mg/Kg-dry | 5 | 12/10/15 12:59 PM |
| Copper | 2.48 | 0.440 | 1.76 | | mg/Kg-dry | 5 | 12/10/15 12:59 PM |
| Iron | 6320 | 110 | 110 | | mg/Kg-dry | 50 | 12/10/15 02:46 PM |
| Lead | 3.09 | 0.0879 | 0.264 | | mg/Kg-dry | 5 | 12/10/15 12:59 PM |
| Manganese | 61.8 | 0.440 | 1.76 | | mg/Kg-dry | 5 | 12/10/15 12:59 PM |
| Selenium | 0.503 | 0.132 | 0.440 | | mg/Kg-dry | 5 | 12/10/15 12:59 PM |
| Silver | <0.176 | 0.0879 | 0.176 | | mg/Kg-dry | 5 | 12/10/15 12:59 PM |
| Zinc | 13.2 | 0.879 | 2.20 | | mg/Kg-dry | 5 | 12/10/15 12:59 PM |
| SEMIVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | | Analyst: DEW |
| 1-Methylnaphthalene | <0.0289 | 0.0109 | 0.0289 | N | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 2-Methylnaphthalene | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| Naphthalene | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| Benzo[a]pyrene | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 2,3,4,6-Tetrachlorophenol | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 2,4,5-Trichlorophenol | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 2,4,6-Trichlorophenol | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 2,4-Dichlorophenol | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 2,4-Dimethylphenol | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 2,4-Dinitrophenol | <0.143 | 0.0543 | 0.143 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 2,6-Dichlorophenol | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 2-Chlorophenol | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 2-Methylphenol | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 2-Nitrophenol | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 4,6-Dinitro-2-methylphenol | <0.0717 | 0.0326 | 0.0717 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 4-Chloro-3-methylphenol | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 4-Methylphenol | <0.0289 | 0.0217 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| 4-Nitrophenol | <0.143 | 0.0543 | 0.143 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| Pentachlorophenol | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| Phenol | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| Total Phenol (Calculated) | <0.0289 | 0.0109 | 0.0289 | | mg/Kg-dry | 1 | 12/09/15 01:55 AM |
| Surr: 2,4,6-Tribromophenol | 81.0 | 0 | 45-126 | | %REC | 1 | 12/09/15 01:55 AM |
| Surr: 2-Fluorobiphenyl | 79.0 | 0 | 60-125 | | %REC | 1 | 12/09/15 01:55 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 4 DP-1
Lab ID: 1512052-13
Collection Date: 12/02/15 04:40 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|----------------|-----------|----|--------------------|
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 77.0 | 0 | 37-125 | %REC | | 1 | 12/09/15 01:55 AM |
| Surr: 4-Terphenyl-d14 | 88.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 01:55 AM |
| Surr: Nitrobenzene-d5 | 72.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 01:55 AM |
| Surr: Phenol-d5 | 76.0 | 0 | 40-125 | %REC | | 1 | 12/09/15 01:55 AM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0362 | 0.0181 | 0.0362 | mg/Kg-dry | | 1 | 12/08/15 07:07 PM |
| Aroclor 1221 | <0.0362 | 0.0181 | 0.0362 | mg/Kg-dry | | 1 | 12/08/15 07:07 PM |
| Aroclor 1232 | <0.0362 | 0.0181 | 0.0362 | mg/Kg-dry | | 1 | 12/08/15 07:07 PM |
| Aroclor 1242 | <0.0362 | 0.0181 | 0.0362 | mg/Kg-dry | | 1 | 12/08/15 07:07 PM |
| Aroclor 1248 | <0.0362 | 0.0181 | 0.0362 | mg/Kg-dry | | 1 | 12/08/15 07:07 PM |
| Aroclor 1254 | <0.0362 | 0.0181 | 0.0362 | mg/Kg-dry | | 1 | 12/08/15 07:07 PM |
| Aroclor 1260 | <0.0362 | 0.0181 | 0.0362 | mg/Kg-dry | | 1 | 12/08/15 07:07 PM |
| Polychlorinated biphenyls | <0.0362 | 0.0181 | 0.0362 | N | mg/Kg-dry | 1 | 12/08/15 07:07 PM |
| Surr: 2-Fluorobiphenyl | 99.3 | 0 | 43-125 | %REC | | 1 | 12/08/15 07:07 PM |
| Surr: 4-Terphenyl-d14 | 91.3 | 0 | 32-125 | %REC | | 1 | 12/08/15 07:07 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| | | | | SW8260C | | | Analyst: SW |
| Benzene | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| Toluene | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| Carbon tetrachloride | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| 1,2-Dichloroethane | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| 1,1-Dichloroethylene | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| Tetrachloroethylene | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| Trichloroethylene | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| Ethylbenzene | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| Total Xylenes | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| Methylene chloride | <0.00539 | 0.00539 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| Chloroform | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| 1,1-Dichloroethane | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| Ethylene bromide | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| 1,1,1-Trichloroethane | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| 1,1,2-Trichloroethane | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| 1,1,2,2-Tetrachloroethane | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| Vinyl chloride | <0.00539 | 0.00108 | 0.00539 | mg/Kg-dry | | 1 | 12/07/15 07:41 PM |
| Surr: 1,2-Dichloroethane-d4 | 108 | 0 | 52-149 | %REC | | 1 | 12/07/15 07:41 PM |
| Surr: 4-Bromofluorobenzene | 101 | 0 | 84-118 | %REC | | 1 | 12/07/15 07:41 PM |
| Surr: Dibromofluoromethane | 106 | 0 | 65-135 | %REC | | 1 | 12/07/15 07:41 PM |
| Surr: Toluene-d8 | 92.5 | 0 | 84-116 | %REC | | 1 | 12/07/15 07:41 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 4 DP-1
Lab ID: 1512052-13
Collection Date: 12/02/15 04:40 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-----------------------------------|--------|-------|-------|------|-----------------|----|-------------------|
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <10.6 | 5.31 | 10.6 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE | | | | | | | |
| Cyanide, Total | <0.518 | 0.207 | 0.518 | | mg/Kg-dry | 1 | 12/09/15 05:34 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | <5.03 | 5.03 | 5.03 | | mg/Kg-dry | 1 | 12/09/15 10:45 AM |
| Fluoride | 2.25 | 1.01 | 1.01 | | mg/Kg-dry | 1 | 12/09/15 10:45 AM |
| Nitrate-N | <5.03 | 5.03 | 5.03 | | mg/Kg-dry | 1 | 12/09/15 10:45 AM |
| Sulfate | <10.1 | 10.1 | 10.1 | | mg/Kg-dry | 1 | 12/09/15 10:45 AM |
| PH OF SOLID (CORROSION) | | | | | | | |
| pH | 8.49 | 0 | 0 | | pH Units@21.2°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 9.71 | 0 | 0 | | WT% | 1 | 12/08/15 09:32 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 4 DP-2
Lab ID: 1512052-14
Collection Date: 12/02/15 04:50 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|----------------|-----------|----|---------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0390 | 0.0156 | 0.0390 | | mg/Kg-dry | 1 | 12/09/15 01:03 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 1.47 | 0.480 | 0.961 | | mg/Kg-dry | 5 | 12/10/15 01:01 PM |
| Barium | 31.1 | 0.480 | 1.92 | | mg/Kg-dry | 5 | 12/10/15 01:01 PM |
| Cadmium | <0.288 | 0.0961 | 0.288 | | mg/Kg-dry | 5 | 12/10/15 01:01 PM |
| Chromium | 7.34 | 0.480 | 1.92 | | mg/Kg-dry | 5 | 12/10/15 01:01 PM |
| Copper | 2.15 | 0.480 | 1.92 | | mg/Kg-dry | 5 | 12/10/15 01:01 PM |
| Iron | 6840 | 120 | 120 | | mg/Kg-dry | 50 | 12/10/15 02:48 PM |
| Lead | 3.12 | 0.0961 | 0.288 | | mg/Kg-dry | 5 | 12/10/15 01:01 PM |
| Manganese | 58.5 | 0.480 | 1.92 | | mg/Kg-dry | 5 | 12/10/15 01:01 PM |
| Selenium | 0.496 | 0.144 | 0.480 | | mg/Kg-dry | 5 | 12/10/15 01:01 PM |
| Silver | <0.192 | 0.0961 | 0.192 | | mg/Kg-dry | 5 | 12/10/15 01:01 PM |
| Zinc | 13.5 | 0.961 | 2.40 | | mg/Kg-dry | 5 | 12/10/15 01:01 PM |
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | | Analyst: DEW |
| 1-Methylnaphthalene | <0.0281 | 0.0106 | 0.0281 | N | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 2-Methylnaphthalene | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| Naphthalene | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| Benzo[a]pyrene | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 2,3,4,6-Tetrachlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 2,4,5-Trichlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 2,4,6-Trichlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 2,4-Dichlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 2,4-Dimethylphenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 2,4-Dinitrophenol | <0.140 | 0.0529 | 0.140 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 2,6-Dichlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 2-Chlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 2-Methylphenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 2-Nitrophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 4,6-Dinitro-2-methylphenol | <0.0698 | 0.0317 | 0.0698 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 4-Chloro-3-methylphenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 4-Methylphenol | <0.0281 | 0.0212 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| 4-Nitrophenol | <0.140 | 0.0529 | 0.140 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| Pentachlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| Phenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| Total Phenol (Calculated) | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:20 AM |
| Surr: 2,4,6-Tribromophenol | 90.0 | 0 | 45-126 | | %REC | 1 | 12/09/15 02:20 AM |
| Surr: 2-Fluorobiphenyl | 82.0 | 0 | 60-125 | | %REC | 1 | 12/09/15 02:20 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analytic detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 4 DP-2
Lab ID: 1512052-14
Collection Date: 12/02/15 04:50 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|----------------|-----------|----|--------------------|
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 80.0 | 0 | 37-125 | %REC | | 1 | 12/09/15 02:20 AM |
| Surr: 4-Terphenyl-d14 | 91.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 02:20 AM |
| Surr: Nitrobenzene-d5 | 76.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 02:20 AM |
| Surr: Phenol-d5 | 80.0 | 0 | 40-125 | %REC | | 1 | 12/09/15 02:20 AM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0353 | 0.0176 | 0.0353 | mg/Kg-dry | | 1 | 12/08/15 07:38 PM |
| Aroclor 1221 | <0.0353 | 0.0176 | 0.0353 | mg/Kg-dry | | 1 | 12/08/15 07:38 PM |
| Aroclor 1232 | <0.0353 | 0.0176 | 0.0353 | mg/Kg-dry | | 1 | 12/08/15 07:38 PM |
| Aroclor 1242 | <0.0353 | 0.0176 | 0.0353 | mg/Kg-dry | | 1 | 12/08/15 07:38 PM |
| Aroclor 1248 | <0.0353 | 0.0176 | 0.0353 | mg/Kg-dry | | 1 | 12/08/15 07:38 PM |
| Aroclor 1254 | <0.0353 | 0.0176 | 0.0353 | mg/Kg-dry | | 1 | 12/08/15 07:38 PM |
| Aroclor 1260 | <0.0353 | 0.0176 | 0.0353 | mg/Kg-dry | | 1 | 12/08/15 07:38 PM |
| Polychlorinated biphenyls | <0.0353 | 0.0176 | 0.0353 | N | mg/Kg-dry | 1 | 12/08/15 07:38 PM |
| Surr: 2-Fluorobiphenyl | 96.8 | 0 | 43-125 | %REC | | 1 | 12/08/15 07:38 PM |
| Surr: 4-Terphenyl-d14 | 88.4 | 0 | 32-125 | %REC | | 1 | 12/08/15 07:38 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| | | | | SW8260C | | | Analyst: SW |
| Benzene | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| Toluene | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| Carbon tetrachloride | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| 1,2-Dichloroethane | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| 1,1-Dichloroethylene | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| Tetrachloroethylene | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| Trichloroethylene | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| Ethylbenzene | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| Total Xylenes | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| Methylene chloride | <0.00531 | 0.00531 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| Chloroform | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| 1,1-Dichloroethane | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| Ethylene bromide | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| 1,1,1-Trichloroethane | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| 1,1,2-Trichloroethane | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| 1,1,2,2-Tetrachloroethane | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| Vinyl chloride | <0.00531 | 0.00106 | 0.00531 | mg/Kg-dry | | 1 | 12/07/15 08:12 PM |
| Surr: 1,2-Dichloroethane-d4 | 108 | 0 | 52-149 | %REC | | 1 | 12/07/15 08:12 PM |
| Surr: 4-Bromofluorobenzene | 101 | 0 | 84-118 | %REC | | 1 | 12/07/15 08:12 PM |
| Surr: Dibromofluoromethane | 106 | 0 | 65-135 | %REC | | 1 | 12/07/15 08:12 PM |
| Surr: Toluene-d8 | 91.3 | 0 | 84-116 | %REC | | 1 | 12/07/15 08:12 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.**Date:** 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 4 DP-2
Lab ID: 1512052-14
Collection Date: 12/02/15 04:50 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-----------------------------------|--------|-------|-------|------|-----------------|----|-------------------|
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <10.7 | 5.36 | 10.7 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE | | | | | | | |
| Cyanide, Total | <0.533 | 0.213 | 0.533 | | mg/Kg-dry | 1 | 12/09/15 05:34 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | <5.27 | 5.27 | 5.27 | | mg/Kg-dry | 1 | 12/09/15 11:00 AM |
| Fluoride | 1.24 | 1.05 | 1.05 | | mg/Kg-dry | 1 | 12/09/15 11:00 AM |
| Nitrate-N | <5.27 | 5.27 | 5.27 | | mg/Kg-dry | 1 | 12/09/15 11:00 AM |
| Sulfate | <10.5 | 10.5 | 10.5 | | mg/Kg-dry | 1 | 12/09/15 11:00 AM |
| PH OF SOLID (CORROSION) | | | | | | | |
| pH | 8.36 | 0 | 0 | | pH Units@21.3°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 7.07 | 0 | 0 | | WT% | 1 | 12/08/15 09:32 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 4 DP-3
Lab ID: 1512052-15
Collection Date: 12/02/15 05:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|------|----------------|----|---------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0380 | 0.0152 | 0.0380 | | mg/Kg-dry | 1 | 12/09/15 01:05 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 1.91 | 0.476 | 0.952 | | mg/Kg-dry | 5 | 12/10/15 01:03 PM |
| Barium | 88.5 | 0.476 | 1.90 | | mg/Kg-dry | 5 | 12/10/15 01:03 PM |
| Cadmium | <0.286 | 0.0952 | 0.286 | | mg/Kg-dry | 5 | 12/10/15 01:03 PM |
| Chromium | 4.78 | 0.476 | 1.90 | | mg/Kg-dry | 5 | 12/10/15 01:03 PM |
| Copper | 1.72 | 0.476 | 1.90 | J | mg/Kg-dry | 5 | 12/10/15 01:03 PM |
| Iron | 4310 | 119 | 119 | | mg/Kg-dry | 50 | 12/10/15 02:50 PM |
| Lead | 2.32 | 0.0952 | 0.286 | | mg/Kg-dry | 5 | 12/10/15 01:03 PM |
| Manganese | 44.0 | 0.476 | 1.90 | | mg/Kg-dry | 5 | 12/10/15 01:03 PM |
| Selenium | 0.430 | 0.143 | 0.476 | J | mg/Kg-dry | 5 | 12/10/15 01:03 PM |
| Silver | <0.190 | 0.0952 | 0.190 | | mg/Kg-dry | 5 | 12/10/15 01:03 PM |
| Zinc | 8.55 | 0.952 | 2.38 | | mg/Kg-dry | 5 | 12/10/15 01:03 PM |
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | | SW8270D | | Analyst: DEW |
| 1-Methylnaphthalene | <0.0281 | 0.0106 | 0.0281 | N | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 2-Methylnaphthalene | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| Naphthalene | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| Benzo[a]pyrene | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 2,3,4,6-Tetrachlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 2,4,5-Trichlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 2,4,6-Trichlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 2,4-Dichlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 2,4-Dimethylphenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 2,4-Dinitrophenol | <0.140 | 0.0529 | 0.140 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 2,6-Dichlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 2-Chlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 2-Methylphenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 2-Nitrophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 4,6-Dinitro-2-methylphenol | <0.0698 | 0.0317 | 0.0698 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 4-Chloro-3-methylphenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 4-Methylphenol | <0.0281 | 0.0211 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| 4-Nitrophenol | <0.140 | 0.0529 | 0.140 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| Pentachlorophenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| Phenol | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| Total Phenol (Calculated) | <0.0281 | 0.0106 | 0.0281 | | mg/Kg-dry | 1 | 12/09/15 02:45 AM |
| Surr: 2,4,6-Tribromophenol | 83.0 | 0 | 45-126 | | %REC | 1 | 12/09/15 02:45 AM |
| Surr: 2-Fluorobiphenyl | 81.0 | 0 | 60-125 | | %REC | 1 | 12/09/15 02:45 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analytic detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 4 DP-3
Lab ID: 1512052-15
Collection Date: 12/02/15 05:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|-----------|-----------|----|-------------------|
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 81.0 | 0 | 37-125 | %REC | | 1 | 12/09/15 02:45 AM |
| Surr: 4-Terphenyl-d14 | 93.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 02:45 AM |
| Surr: Nitrobenzene-d5 | 76.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 02:45 AM |
| Surr: Phenol-d5 | 81.0 | 0 | 40-125 | %REC | | 1 | 12/09/15 02:45 AM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 08:09 PM |
| Aroclor 1221 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 08:09 PM |
| Aroclor 1232 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 08:09 PM |
| Aroclor 1242 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 08:09 PM |
| Aroclor 1248 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 08:09 PM |
| Aroclor 1254 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 08:09 PM |
| Aroclor 1260 | <0.0352 | 0.0176 | 0.0352 | mg/Kg-dry | | 1 | 12/08/15 08:09 PM |
| Polychlorinated biphenyls | <0.0352 | 0.0176 | 0.0352 | N | mg/Kg-dry | 1 | 12/08/15 08:09 PM |
| Surr: 2-Fluorobiphenyl | 89.0 | 0 | 43-125 | %REC | | 1 | 12/08/15 08:09 PM |
| Surr: 4-Terphenyl-d14 | 82.5 | 0 | 32-125 | %REC | | 1 | 12/08/15 08:09 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| Benzene | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| Toluene | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| Carbon tetrachloride | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| 1,2-Dichloroethane | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| 1,1-Dichloroethylene | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| Tetrachloroethylene | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| Trichloroethylene | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| Ethylbenzene | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| Total Xylenes | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| Methylene chloride | <0.00541 | 0.00541 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| Chloroform | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| 1,1-Dichloroethane | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| Ethylene bromide | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| 1,1,1-Trichloroethane | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| 1,1,2-Trichloroethane | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| 1,1,2,2-Tetrachloroethane | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| Vinyl chloride | <0.00541 | 0.00108 | 0.00541 | mg/Kg-dry | | 1 | 12/07/15 08:43 PM |
| Surr: 1,2-Dichloroethane-d4 | 108 | 0 | 52-149 | %REC | | 1 | 12/07/15 08:43 PM |
| Surr: 4-Bromofluorobenzene | 101 | 0 | 84-118 | %REC | | 1 | 12/07/15 08:43 PM |
| Surr: Dibromofluoromethane | 105 | 0 | 65-135 | %REC | | 1 | 12/07/15 08:43 PM |
| Surr: Toluene-d8 | 91.1 | 0 | 84-116 | %REC | | 1 | 12/07/15 08:43 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 4 DP-3
Lab ID: 1512052-15
Collection Date: 12/02/15 05:00 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-----------------------------------|--------|-------|-------|------|-----------------|----|-------------------|
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <10.8 | 5.39 | 10.8 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE | | | | | | | |
| Cyanide, Total | <0.541 | 0.217 | 0.541 | | mg/Kg-dry | 1 | 12/09/15 05:34 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | <4.84 | 4.84 | 4.84 | | mg/Kg-dry | 1 | 12/09/15 11:44 AM |
| Fluoride | 0.998 | 0.969 | 0.969 | | mg/Kg-dry | 1 | 12/09/15 11:44 AM |
| Nitrate-N | <4.84 | 4.84 | 4.84 | | mg/Kg-dry | 1 | 12/09/15 11:44 AM |
| Sulfate | 19.5 | 9.69 | 9.69 | | mg/Kg-dry | 1 | 12/09/15 11:44 AM |
| PH OF SOLID (CORROSIONITY) | | | | | | | |
| pH | 8.57 | 0 | 0 | | pH Units@21.3°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 9.44 | 0 | 0 | | WT% | 1 | 12/08/15 09:32 AM |

| | | | | |
|--------------------|-------------------------------|---|----|---|
| Qualifiers: | * | Value exceeds TCLP Maximum Concentration Level | B | Analyte detected in the associated Method Blank |
| | C | Sample Result or QC discussed in the Case Narrative | DF | Dilution Factor |
| | E | TPH pattern not Gas or Diesel Range Pattern | J | Analyte detected between MDL and RL |
| MDL | Method Detection Limit | | ND | Not Detected at the Method Detection Limit |
| RL | Reporting Limit | | S | Spike Recovery outside control limits |
| N | Parameter not NELAC certified | | | |

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 4 DP-4
Lab ID: 1512052-16
Collection Date: 12/02/15 05:10 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|---------|--------|--------|----------------|-----------|----|---------------------|
| TOTAL MERCURY: SOIL/SOLID | | | | | | | |
| Mercury | <0.0415 | 0.0166 | 0.0415 | | mg/Kg-dry | 1 | 12/09/15 01:08 PM |
| TRACE METALS: ICP-MS - SOLID | | | | | | | |
| Arsenic | 2.77 | 0.472 | 0.943 | | mg/Kg-dry | 5 | 12/10/15 01:05 PM |
| Barium | 107 | 0.472 | 1.89 | | mg/Kg-dry | 5 | 12/10/15 01:05 PM |
| Cadmium | <0.283 | 0.0943 | 0.283 | | mg/Kg-dry | 5 | 12/10/15 01:05 PM |
| Chromium | 8.93 | 0.472 | 1.89 | | mg/Kg-dry | 5 | 12/10/15 01:05 PM |
| Copper | 2.23 | 0.472 | 1.89 | | mg/Kg-dry | 5 | 12/10/15 01:05 PM |
| Iron | 8570 | 118 | 118 | | mg/Kg-dry | 50 | 12/10/15 02:52 PM |
| Lead | 4.09 | 0.0943 | 0.283 | | mg/Kg-dry | 5 | 12/10/15 01:05 PM |
| Manganese | 73.5 | 0.472 | 1.89 | | mg/Kg-dry | 5 | 12/10/15 01:05 PM |
| Selenium | 0.700 | 0.142 | 0.472 | | mg/Kg-dry | 5 | 12/10/15 01:05 PM |
| Silver | <0.189 | 0.0943 | 0.189 | | mg/Kg-dry | 5 | 12/10/15 01:05 PM |
| Zinc | 18.3 | 0.943 | 2.36 | | mg/Kg-dry | 5 | 12/10/15 01:05 PM |
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| | | | | SW8270D | | | Analyst: DEW |
| 1-Methylnaphthalene | <0.0305 | 0.0115 | 0.0305 | N | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 2-Methylnaphthalene | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| Naphthalene | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| Benzo[a]pyrene | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 2,3,4,6-Tetrachlorophenol | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 2,4,5-Trichlorophenol | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 2,4,6-Trichlorophenol | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 2,4-Dichlorophenol | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 2,4-Dimethylphenol | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 2,4-Dinitrophenol | <0.151 | 0.0573 | 0.151 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 2,6-Dichlorophenol | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 2-Chlorophenol | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 2-Methylphenol | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 2-Nitrophenol | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 4,6-Dinitro-2-methylphenol | <0.0756 | 0.0344 | 0.0756 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 4-Chloro-3-methylphenol | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 4-Methylphenol | <0.0305 | 0.0229 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| 4-Nitrophenol | <0.151 | 0.0573 | 0.151 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| Pentachlorophenol | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| Phenol | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| Total Phenol (Calculated) | <0.0305 | 0.0115 | 0.0305 | | mg/Kg-dry | 1 | 12/09/15 03:10 AM |
| Surr: 2,4,6-Tribromophenol | 81.0 | 0 | 45-126 | | %REC | 1 | 12/09/15 03:10 AM |
| Surr: 2-Fluorobiphenyl | 78.0 | 0 | 60-125 | | %REC | 1 | 12/09/15 03:10 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
C Sample Result or QC discussed in the Case Narrative
E TPH pattern not Gas or Diesel Range Pattern
MDL Method Detection Limit
RL Reporting Limit
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
DF Dilution Factor
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
S Spike Recovery outside control limits

DHL Analytical, Inc.
Date: 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 4 DP-4
Lab ID: 1512052-16
Collection Date: 12/02/15 05:10 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|--------------------------------------|----------|---------|---------|----------------|-----------|----|--------------------|
| SEMOVOLATILES BY GC/MS - SOIL | | | | | | | |
| Surr: 2-Fluorophenol | 77.0 | 0 | 37-125 | %REC | | 1 | 12/09/15 03:10 AM |
| Surr: 4-Terphenyl-d14 | 88.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 03:10 AM |
| Surr: Nitrobenzene-d5 | 72.0 | 0 | 45-125 | %REC | | 1 | 12/09/15 03:10 AM |
| Surr: Phenol-d5 | 75.0 | 0 | 40-125 | %REC | | 1 | 12/09/15 03:10 AM |
| PCB BY GC/MS - SOIL/SOLID | | | | | | | |
| Aroclor 1016 | <0.0382 | 0.0191 | 0.0382 | mg/Kg-dry | | 1 | 12/08/15 08:40 PM |
| Aroclor 1221 | <0.0382 | 0.0191 | 0.0382 | mg/Kg-dry | | 1 | 12/08/15 08:40 PM |
| Aroclor 1232 | <0.0382 | 0.0191 | 0.0382 | mg/Kg-dry | | 1 | 12/08/15 08:40 PM |
| Aroclor 1242 | <0.0382 | 0.0191 | 0.0382 | mg/Kg-dry | | 1 | 12/08/15 08:40 PM |
| Aroclor 1248 | <0.0382 | 0.0191 | 0.0382 | mg/Kg-dry | | 1 | 12/08/15 08:40 PM |
| Aroclor 1254 | <0.0382 | 0.0191 | 0.0382 | mg/Kg-dry | | 1 | 12/08/15 08:40 PM |
| Aroclor 1260 | <0.0382 | 0.0191 | 0.0382 | mg/Kg-dry | | 1 | 12/08/15 08:40 PM |
| Polychlorinated biphenyls | <0.0382 | 0.0191 | 0.0382 | N | mg/Kg-dry | 1 | 12/08/15 08:40 PM |
| Surr: 2-Fluorobiphenyl | 93.6 | 0 | 43-125 | %REC | | 1 | 12/08/15 08:40 PM |
| Surr: 4-Terphenyl-d14 | 89.8 | 0 | 32-125 | %REC | | 1 | 12/08/15 08:40 PM |
| 8260 SOIL VOLATILES BY GC/MS | | | | | | | |
| | | | | SW8260C | | | Analyst: SW |
| Benzene | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| Toluene | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| Carbon tetrachloride | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| 1,2-Dichloroethane | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| 1,1-Dichloroethylene | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| Tetrachloroethylene | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| Trichloroethylene | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| Ethylbenzene | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| Total Xylenes | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| Methylene chloride | <0.00534 | 0.00534 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| Chloroform | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| 1,1-Dichloroethane | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| Ethylene bromide | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| 1,1,1-Trichloroethane | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| 1,1,2-Trichloroethane | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| 1,1,2,2-Tetrachloroethane | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| Vinyl chloride | <0.00534 | 0.00107 | 0.00534 | mg/Kg-dry | | 1 | 12/07/15 09:15 PM |
| Surr: 1,2-Dichloroethane-d4 | 112 | 0 | 52-149 | %REC | | 1 | 12/07/15 09:15 PM |
| Surr: 4-Bromofluorobenzene | 102 | 0 | 84-118 | %REC | | 1 | 12/07/15 09:15 PM |
| Surr: Dibromofluoromethane | 107 | 0 | 65-135 | %REC | | 1 | 12/07/15 09:15 PM |
| Surr: Toluene-d8 | 91.5 | 0 | 84-116 | %REC | | 1 | 12/07/15 09:15 PM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.**Date:** 15-Dec-15

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 15-0121-01
Lab Order: 1512052

Client Sample ID: Cell 4 DP-4
Lab ID: 1512052-16
Collection Date: 12/02/15 05:10 PM
Matrix: SOIL

| Analyses | Result | MDL | RL | Qual | Units | DF | Date Analyzed |
|-----------------------------------|--------|-------|-------|------|-----------------|----|-------------------|
| TRPH | | | | | | | |
| Petroleum Hydrocarbons, TR | <10.9 | 5.43 | 10.9 | N | mg/Kg-dry | 1 | 12/14/15 10:35 AM |
| CYANIDE - SOLID SAMPLE | | | | | | | |
| Cyanide, Total | <0.577 | 0.231 | 0.577 | | mg/Kg-dry | 1 | 12/09/15 05:34 PM |
| ANIONS BY IC METHOD - SOIL | | | | | | | |
| Chloride | 7.48 | 5.76 | 5.76 | | mg/Kg-dry | 1 | 12/09/15 11:59 AM |
| Fluoride | 3.86 | 1.15 | 1.15 | | mg/Kg-dry | 1 | 12/09/15 11:59 AM |
| Nitrate-N | <5.76 | 5.76 | 5.76 | | mg/Kg-dry | 1 | 12/09/15 11:59 AM |
| Sulfate | 57.6 | 11.5 | 11.5 | | mg/Kg-dry | 1 | 12/09/15 11:59 AM |
| PH OF SOLID (CORROSIONITY) | | | | | | | |
| pH | 8.47 | 0 | 0 | | pH Units@21.1°C | 1 | 12/07/15 10:30 AM |
| PERCENT MOISTURE | | | | | | | |
| Percent Moisture | 13.8 | 0 | 0 | | WT% | 1 | 12/08/15 09:32 AM |

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 15-Dec-15

CLIENT: Larson & Associates

Work Order: 1512052

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_151209C

The QC data in batch 72606 applies to the following samples: 1512052-01D, 1512052-02D, 1512052-03D, 1512052-04D, 1512052-05D, 1512052-06D, 1512052-07D, 1512052-08D, 1512052-09D, 1512052-10D, 1512052-11D, 1512052-12D, 1512052-13D, 1512052-14D, 1512052-15D, 1512052-16D

| Sample ID | MB-72606 | Batch ID: | 72606 | TestNo: | SW7471B | Units: | mg/Kg | | | |
|-----------|-----------------|-----------|-------------------|----------------|-----------------------|------------|-----------|------|----------|------|
| SampType: | MBLK | Run ID: | CETAC2_HG_151209C | Analysis Date: | 12/9/2015 12:11:56 PM | Prep Date: | 12/9/2015 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.0400 | 0.0400 | | | | | | | | |
| Sample ID | LCS-72606 | Batch ID: | 72606 | TestNo: | SW7471B | Units: | mg/Kg | | | |
| SampType: | LCS | Run ID: | CETAC2_HG_151209C | Analysis Date: | 12/9/2015 12:14:12 PM | Prep Date: | 12/9/2015 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.218 | 0.0400 | 0.2000 | 0 | 109 | 85 | 115 | | | |
| Sample ID | LCSD-72606 | Batch ID: | 72606 | TestNo: | SW7471B | Units: | mg/Kg | | | |
| SampType: | LCSD | Run ID: | CETAC2_HG_151209C | Analysis Date: | 12/9/2015 12:18:05 PM | Prep Date: | 12/9/2015 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.214 | 0.0400 | 0.2000 | 0 | 107 | 85 | 115 | 1.85 | 25 | |
| Sample ID | 1512052-04D SD | Batch ID: | 72606 | TestNo: | SW7471B | Units: | mg/Kg-dry | | | |
| SampType: | SD | Run ID: | CETAC2_HG_151209C | Analysis Date: | 12/9/2015 12:29:24 PM | Prep Date: | 12/9/2015 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | <0.210 | 0.210 | 0 | 0 | | | | 0 | 10 | |
| Sample ID | 1512052-04D PDS | Batch ID: | 72606 | TestNo: | SW7471B | Units: | mg/Kg-dry | | | |
| SampType: | PDS | Run ID: | CETAC2_HG_151209C | Analysis Date: | 12/9/2015 12:31:40 PM | Prep Date: | 12/9/2015 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.281 | 0.0421 | 0.2630 | 0 | 107 | 85 | 115 | | | |
| Sample ID | 1512052-04D MS | Batch ID: | 72606 | TestNo: | SW7471B | Units: | mg/Kg-dry | | | |
| SampType: | MS | Run ID: | CETAC2_HG_151209C | Analysis Date: | 12/9/2015 12:33:56 PM | Prep Date: | 12/9/2015 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.226 | 0.0403 | 0.2015 | 0 | 112 | 80 | 120 | | | |
| Sample ID | 1512052-04D MSD | Batch ID: | 72606 | TestNo: | SW7471B | Units: | mg/Kg-dry | | | |
| SampType: | MSD | Run ID: | CETAC2_HG_151209C | Analysis Date: | 12/9/2015 12:36:12 PM | Prep Date: | 12/9/2015 | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.213 | 0.0393 | 0.1963 | 0 | 108 | 80 | 120 | 5.79 | 25 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC2_HG_151209C

| Sample ID | ICV-151209 | Batch ID: | R83014 | TestNo: | SW7471B | Units: | mg/Kg | | | |
|-----------|-------------|-----------|-------------------|----------------|-----------------------|------------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | CETAC2_HG_151209C | Analysis Date: | 12/9/2015 11:20:05 AM | Prep Date: | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00396 | 0.0400 | 0.004000 | 0 | 99.0 | 90 | 110 | | | |
| Sample ID | CCV1-151209 | Batch ID: | R83014 | TestNo: | SW7471B | Units: | mg/Kg | | | |
| SampType: | CCV | Run ID: | CETAC2_HG_151209C | Analysis Date: | 12/9/2015 12:07:22 PM | Prep Date: | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00208 | 0.0400 | 0.002000 | 0 | 104 | 90 | 110 | | | |
| Sample ID | CCV2-151209 | Batch ID: | R83014 | TestNo: | SW7471B | Units: | mg/Kg | | | |
| SampType: | CCV | Run ID: | CETAC2_HG_151209C | Analysis Date: | 12/9/2015 12:52:06 PM | Prep Date: | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00208 | 0.0400 | 0.002000 | 0 | 104 | 90 | 110 | | | |
| Sample ID | CCV3-151209 | Batch ID: | R83014 | TestNo: | SW7471B | Units: | mg/Kg | | | |
| SampType: | CCV | Run ID: | CETAC2_HG_151209C | Analysis Date: | 12/9/2015 1:10:19 PM | Prep Date: | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Mercury | 0.00209 | 0.0400 | 0.002000 | 0 | 104 | 90 | 110 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151210A

The QC data in batch 72605 applies to the following samples: 1512052-01D, 1512052-02D, 1512052-03D, 1512052-04D, 1512052-05D, 1512052-06D, 1512052-07D, 1512052-08D, 1512052-09D, 1512052-10D, 1512052-11D, 1512052-12D, 1512052-13D, 1512052-14D, 1512052-15D, 1512052-16D

| Sample ID | MB-72605 | Batch ID: | 72605 | TestNo: | SW6020A | Units: | mg/Kg | | | | |
|-----------|----------|-----------|-----------------|--------------------------------------|---------|------------|-----------|-----------|------|----------|------|
| SampType: | MLBK | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 1:16:00 PM | | Prep Date: | 12/9/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | <1.00 | 1.00 | | | | | | | | |
| Barium | | <2.00 | 2.00 | | | | | | | | |
| Cadmium | | <0.300 | 0.300 | | | | | | | | |
| Chromium | | <2.00 | 2.00 | | | | | | | | |
| Copper | | <2.00 | 2.00 | | | | | | | | |
| Iron | | <37.5 | 37.5 | | | | | | | | |
| Lead | | <0.300 | 0.300 | | | | | | | | |
| Manganese | | <2.00 | 2.00 | | | | | | | | |
| Selenium | | <0.500 | 0.500 | | | | | | | | |
| Silver | | <0.200 | 0.200 | | | | | | | | |
| Zinc | | <2.50 | 2.50 | | | | | | | | |

| Sample ID | LCS-72605 | Batch ID: | 72605 | TestNo: | SW6020A | Units: | mg/Kg | | | | |
|-----------|-----------|-----------|-----------------|--------------------------------------|---------|------------|-----------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 1:18:00 PM | | Prep Date: | 12/9/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 52.5 | 1.00 | 50.00 | 0 | 105 | 80 | 120 | | | |
| Barium | | 52.3 | 2.00 | 50.00 | 0 | 105 | 80 | 120 | | | |
| Cadmium | | 51.9 | 0.300 | 50.00 | 0 | 104 | 80 | 120 | | | |
| Chromium | | 52.8 | 2.00 | 50.00 | 0 | 106 | 80 | 120 | | | |
| Copper | | 53.9 | 2.00 | 50.00 | 0 | 108 | 80 | 120 | | | |
| Iron | | 265 | 37.5 | 250.0 | 0 | 106 | 80 | 120 | | | |
| Lead | | 50.0 | 0.300 | 50.00 | 0 | 100 | 80 | 120 | | | |
| Manganese | | 52.5 | 2.00 | 50.00 | 0 | 105 | 80 | 120 | | | |
| Selenium | | 51.1 | 0.500 | 50.00 | 0 | 102 | 80 | 120 | | | |
| Silver | | 52.0 | 0.200 | 50.00 | 0 | 104 | 80 | 120 | | | |
| Zinc | | 52.7 | 2.50 | 50.00 | 0 | 105 | 80 | 120 | | | |

| Sample ID | LCSD-72605 | Batch ID: | 72605 | TestNo: | SW6020A | Units: | mg/Kg | | | | |
|-----------|------------|-----------|-----------------|--------------------------------------|---------|------------|-----------|-----------|-------|----------|------|
| SampType: | LCSD | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 1:20:00 PM | | Prep Date: | 12/9/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 52.2 | 1.00 | 50.00 | 0 | 104 | 80 | 120 | 0.635 | 20 | |
| Barium | | 50.5 | 2.00 | 50.00 | 0 | 101 | 80 | 120 | 3.49 | 20 | |
| Cadmium | | 50.7 | 0.300 | 50.00 | 0 | 101 | 80 | 120 | 2.36 | 20 | |
| Chromium | | 52.4 | 2.00 | 50.00 | 0 | 105 | 80 | 120 | 0.682 | 20 | |
| Copper | | 53.1 | 2.00 | 50.00 | 0 | 106 | 80 | 120 | 1.47 | 20 | |
| Iron | | 265 | 37.5 | 250.0 | 0 | 106 | 80 | 120 | 0.073 | 20 | |
| Lead | | 49.6 | 0.300 | 50.00 | 0 | 99.1 | 80 | 120 | 0.839 | 20 | |

| | | | | | | | |
|--------------------|----|---|-----|---------------------------------------|--|--|--|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor | | | |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit | | | |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits | | | |
| | RL | Reporting Limit | S | Spike Recovery outside control limits | | | |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified | | | |

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151210A

| Sample ID | LCSD-72605 | Batch ID: | 72605 | TestNo: | SW6020A | | Units: | mg/Kg | | | |
|-----------|------------|-----------|-----------------|----------------|-----------------------|------|------------|-----------|-------|----------|------|
| SampType: | LCSD | Run ID: | ICP-MS4_151210A | Analysis Date: | 12/10/2015 1:20:00 PM | | Prep Date: | 12/9/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Manganese | | 51.7 | 2.00 | 50.00 | 0 | 103 | 80 | 120 | 1.52 | 20 | |
| Selenium | | 51.2 | 0.500 | 50.00 | 0 | 102 | 80 | 120 | 0.139 | 20 | |
| Silver | | 50.5 | 0.200 | 50.00 | 0 | 101 | 80 | 120 | 2.82 | 20 | |
| Zinc | | 52.0 | 2.50 | 50.00 | 0 | 104 | 80 | 120 | 1.31 | 20 | |

| Sample ID | 1512052-04D SD | Batch ID: | 72605 | TestNo: | SW6020A | | Units: | mg/Kg-dry | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------|------------|-----------|-------|----------|------|
| SampType: | SD | Run ID: | ICP-MS4_151210A | Analysis Date: | 12/10/2015 1:26:00 PM | | Prep Date: | 12/9/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 4.09 | 5.51 | 0 | 4.130 | | | | 0.946 | 10 | |
| Barium | | 155 | 11.0 | 0 | 157.0 | | | | 1.20 | 10 | |
| Cadmium | | <1.65 | 1.65 | 0 | 0 | | | | 0 | 10 | |
| Chromium | | 21.6 | 11.0 | 0 | 20.97 | | | | 3.16 | 10 | |
| Copper | | 7.18 | 11.0 | 0 | 6.876 | | | | 4.32 | 10 | |
| Lead | | 9.40 | 1.65 | 0 | 9.673 | | | | 2.83 | 10 | |
| Selenium | | 1.86 | 2.76 | 0 | 1.700 | | | | 8.90 | 10 | |
| Silver | | <1.10 | 1.10 | 0 | 0 | | | | 0 | 10 | |
| Zinc | | 41.0 | 13.8 | 0 | 39.67 | | | | 3.22 | 10 | |

| Sample ID | 1512052-04D PDS | Batch ID: | 72605 | TestNo: | SW6020A | | Units: | mg/Kg-dry | | | |
|-----------|-----------------|-----------|-----------------|----------------|-----------------------|------|------------|-----------|------|----------|------|
| SampType: | PDS | Run ID: | ICP-MS4_151210A | Analysis Date: | 12/10/2015 1:45:00 PM | | Prep Date: | 12/9/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 61.3 | 1.10 | 55.14 | 4.130 | 104 | 80 | 120 | | | |
| Barium | | 219 | 2.21 | 55.14 | 157.0 | 112 | 80 | 120 | | | |
| Cadmium | | 55.2 | 0.331 | 55.14 | 0 | 100 | 80 | 120 | | | |
| Chromium | | 77.1 | 2.21 | 55.14 | 20.97 | 102 | 80 | 120 | | | |
| Copper | | 62.5 | 2.21 | 55.14 | 6.876 | 101 | 80 | 120 | | | |
| Lead | | 65.1 | 0.331 | 55.14 | 9.673 | 100 | 80 | 120 | | | |
| Selenium | | 57.0 | 0.551 | 55.14 | 1.700 | 100 | 80 | 120 | | | |
| Silver | | 54.1 | 0.221 | 55.14 | 0 | 98.1 | 80 | 120 | | | |
| Zinc | | 95.3 | 2.76 | 55.14 | 39.67 | 101 | 80 | 120 | | | |

| Sample ID | 1512052-04D MS | Batch ID: | 72605 | TestNo: | SW6020A | | Units: | mg/Kg-dry | | | |
|-----------|----------------|-----------|-----------------|----------------|-----------------------|------|------------|-----------|------|----------|------|
| SampType: | MS | Run ID: | ICP-MS4_151210A | Analysis Date: | 12/10/2015 1:47:00 PM | | Prep Date: | 12/9/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 60.1 | 1.10 | 55.14 | 4.130 | 102 | 80 | 120 | | | |
| Barium | | 216 | 2.21 | 55.14 | 157.0 | 106 | 80 | 120 | | | |
| Cadmium | | 54.2 | 0.331 | 55.14 | 0 | 98.2 | 80 | 120 | | | |
| Chromium | | 74.0 | 2.21 | 55.14 | 20.97 | 96.1 | 80 | 120 | | | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151210A

| Sample ID | 1512052-04D MS | Batch ID: | 72605 | TestNo: | SW6020A | | Units: | mg/Kg-dry | | | |
|-----------|-----------------|-----------|-----------------|--------------------------------------|---------|------|------------|-----------|-------|----------|------|
| SampType: | MS | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 1:47:00 PM | | | Prep Date: | 12/9/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Copper | | 61.6 | 2.21 | 55.14 | 6.876 | 99.3 | 80 | 120 | | | |
| Iron | | 17500 | 41.4 | 275.7 | 17960 | -160 | 80 | 120 | | | S |
| Lead | | 63.4 | 0.331 | 55.14 | 9.673 | 97.5 | 80 | 120 | | | |
| Manganese | | 973 | 2.21 | 55.14 | 868.5 | 190 | 80 | 120 | | | S |
| Selenium | | 54.6 | 0.551 | 55.14 | 1.700 | 95.9 | 80 | 120 | | | |
| Silver | | 53.5 | 0.221 | 55.14 | 0 | 97.0 | 80 | 120 | | | |
| Zinc | | 93.3 | 2.76 | 55.14 | 39.67 | 97.3 | 80 | 120 | | | |
| Sample ID | 1512052-04D MSD | Batch ID: | 72605 | TestNo: | SW6020A | | Units: | mg/Kg-dry | | | |
| SampType: | MSD | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 1:49:00 PM | | | Prep Date: | 12/9/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 58.1 | 1.05 | 52.65 | 4.130 | 103 | 80 | 120 | 3.37 | 20 | |
| Barium | | 212 | 2.11 | 52.65 | 157.0 | 105 | 80 | 120 | 1.63 | 20 | |
| Cadmium | | 52.4 | 0.316 | 52.65 | 0 | 99.5 | 80 | 120 | 3.32 | 20 | |
| Chromium | | 70.7 | 2.11 | 52.65 | 20.97 | 94.4 | 80 | 120 | 4.57 | 20 | |
| Copper | | 59.2 | 2.11 | 52.65 | 6.876 | 99.4 | 80 | 120 | 3.97 | 20 | |
| Iron | | 16900 | 39.5 | 263.3 | 17960 | -398 | 80 | 120 | 3.53 | 20 | S |
| Lead | | 60.4 | 0.316 | 52.65 | 9.673 | 96.3 | 80 | 120 | 4.93 | 20 | |
| Manganese | | 871 | 2.11 | 52.65 | 868.5 | 4.81 | 80 | 120 | 11.1 | 20 | S |
| Selenium | | 53.3 | 0.527 | 52.65 | 1.700 | 98.0 | 80 | 120 | 2.34 | 20 | |
| Silver | | 51.6 | 0.211 | 52.65 | 0 | 98.1 | 80 | 120 | 3.46 | 20 | |
| Zinc | | 88.7 | 2.63 | 52.65 | 39.67 | 93.1 | 80 | 120 | 5.08 | 20 | |
| Sample ID | 1512052-04D SD | Batch ID: | 72605 | TestNo: | SW6020A | | Units: | mg/Kg-dry | | | |
| SampType: | SD | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 3:04:00 PM | | | Prep Date: | 12/9/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | | 19500 | 2070 | 0 | 19170 | | | | 1.70 | 10 | |
| Manganese | | 926 | 110 | 0 | 921.6 | | | | 0.483 | 10 | |
| Sample ID | 1512052-04D PDS | Batch ID: | 72605 | TestNo: | SW6020A | | Units: | mg/Kg-dry | | | |
| SampType: | PDS | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 3:24:00 PM | | | Prep Date: | 12/9/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | | 32200 | 414 | 13780 | 19170 | 94.6 | 80 | 120 | | | |
| Manganese | | 1450 | 22.1 | 551.4 | 921.6 | 96.3 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151210A

| Sample ID | ICV-151210 | Batch ID: | R83060 | TestNo: | SW6020A | | Units: | mg/L | | | |
|-----------|------------|-----------|---|----------------|-----------------------|------|------------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | ICP-MS4_151210A <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">12/10/2015 10:42:00 A</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td></td> | Analysis Date: | 12/10/2015 10:42:00 A | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.101 | 0.00500 | 0.100 | 0 | 101 | 90 | 110 | | | |
| Barium | | 0.0994 | 0.0100 | 0.100 | 0 | 99.4 | 90 | 110 | | | |
| Cadmium | | 0.100 | 0.00100 | 0.100 | 0 | 100 | 90 | 110 | | | |
| Chromium | | 0.105 | 0.00500 | 0.100 | 0 | 105 | 90 | 110 | | | |
| Copper | | 0.106 | 0.0100 | 0.100 | 0 | 106 | 90 | 110 | | | |
| Iron | | 2.54 | 0.100 | 2.50 | 0 | 102 | 90 | 110 | | | |
| Lead | | 0.100 | 0.00100 | 0.100 | 0 | 100 | 90 | 110 | | | |
| Manganese | | 0.100 | 0.0100 | 0.100 | 0 | 100 | 90 | 110 | | | |
| Selenium | | 0.100 | 0.00500 | 0.100 | 0 | 100 | 90 | 110 | | | |
| Silver | | 0.101 | 0.00200 | 0.100 | 0 | 101 | 90 | 110 | | | |
| Zinc | | 0.103 | 0.00500 | 0.100 | 0 | 103 | 90 | 110 | | | |

| Sample ID | LCVL-151210 | Batch ID: | R83060 | TestNo: | SW6020A | | Units: | mg/L | | | |
|-----------|-------------|-----------|---|----------------|-----------------------|------|------------|-----------|------|----------|------|
| SampType: | LCVL | Run ID: | ICP-MS4_151210A <th>Analysis Date:</th> <td data-cs="2" data-kind="parent">12/10/2015 10:46:00 A</td> <td data-kind="ghost"></td> <th>Prep Date:</th> <td></td> | Analysis Date: | 12/10/2015 10:46:00 A | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.00506 | 0.00500 | 0.00500 | 0 | 101 | 70 | 130 | | | |
| Barium | | 0.00502 | 0.0100 | 0.00500 | 0 | 100 | 70 | 130 | | | |
| Cadmium | | 0.000948 | 0.00100 | 0.00100 | 0 | 94.8 | 70 | 130 | | | |
| Chromium | | 0.00518 | 0.00500 | 0.00500 | 0 | 104 | 70 | 130 | | | |
| Copper | | 0.00538 | 0.0100 | 0.00500 | 0 | 108 | 70 | 130 | | | |
| Iron | | 0.103 | 0.100 | 0.100 | 0 | 103 | 70 | 130 | | | |
| Lead | | 0.000936 | 0.00100 | 0.00100 | 0 | 93.6 | 70 | 130 | | | |
| Manganese | | 0.00497 | 0.0100 | 0.00500 | 0 | 99.4 | 70 | 130 | | | |
| Selenium | | 0.00560 | 0.00500 | 0.00500 | 0 | 112 | 70 | 130 | | | |
| Silver | | 0.00210 | 0.00200 | 0.00200 | 0 | 105 | 70 | 130 | | | |
| Zinc | | 0.00492 | 0.00500 | 0.00500 | 0 | 98.4 | 70 | 130 | | | |

| Sample ID | CCV3-151210 | Batch ID: | R83060 | TestNo: | SW6020A | | Units: | mg/L | | | |
|-----------|-------------|-----------|-----------------|----------------|-----------------------|------|------------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | ICP-MS4_151210A | Analysis Date: | 12/10/2015 12:32:00 P | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.207 | 0.00500 | 0.200 | 0 | 104 | 90 | 110 | | | |
| Barium | | 0.197 | 0.0100 | 0.200 | 0 | 98.4 | 90 | 110 | | | |
| Cadmium | | 0.200 | 0.00100 | 0.200 | 0 | 99.9 | 90 | 110 | | | |
| Chromium | | 0.203 | 0.00500 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Copper | | 0.211 | 0.0100 | 0.200 | 0 | 105 | 90 | 110 | | | |
| Lead | | 0.195 | 0.00100 | 0.200 | 0 | 97.5 | 90 | 110 | | | |
| Manganese | | 0.204 | 0.0100 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Selenium | | 0.203 | 0.00500 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Silver | | 0.199 | 0.00200 | 0.200 | 0 | 99.7 | 90 | 110 | | | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151210A

| Sample ID | CCV3-151210 | Batch ID: | R83060 | TestNo: | SW6020A | Units: | mg/L | | | | |
|-----------|--------------|-----------|-----------------|--------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 12:32:00 P | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Zinc | | 0.208 | 0.00500 | 0.200 | 0 | 104 | 90 | 110 | | | |
| Sample ID | LCVL3-151210 | Batch ID: | R83060 | TestNo: | SW6020A | Units: | mg/L | | | | |
| SampType: | LCVL | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 12:37:00 P | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.00523 | 0.00500 | 0.00500 | 0 | 105 | 70 | 130 | | | |
| Barium | | 0.00498 | 0.0100 | 0.00500 | 0 | 99.6 | 70 | 130 | | | |
| Cadmium | | 0.000951 | 0.00100 | 0.00100 | 0 | 95.1 | 70 | 130 | | | |
| Chromium | | 0.00510 | 0.00500 | 0.00500 | 0 | 102 | 70 | 130 | | | |
| Copper | | 0.00528 | 0.0100 | 0.00500 | 0 | 106 | 70 | 130 | | | |
| Lead | | 0.000898 | 0.00100 | 0.00100 | 0 | 89.8 | 70 | 130 | | | |
| Manganese | | 0.00506 | 0.0100 | 0.00500 | 0 | 101 | 70 | 130 | | | |
| Selenium | | 0.00518 | 0.00500 | 0.00500 | 0 | 104 | 70 | 130 | | | |
| Silver | | 0.00204 | 0.00200 | 0.00200 | 0 | 102 | 70 | 130 | | | |
| Zinc | | 0.00513 | 0.00500 | 0.00500 | 0 | 103 | 70 | 130 | | | |
| Sample ID | CCV4-151210 | Batch ID: | R83060 | TestNo: | SW6020A | Units: | mg/L | | | | |
| SampType: | CCV | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 1:07:00 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.205 | 0.00500 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Barium | | 0.200 | 0.0100 | 0.200 | 0 | 100 | 90 | 110 | | | |
| Cadmium | | 0.200 | 0.00100 | 0.200 | 0 | 99.8 | 90 | 110 | | | |
| Chromium | | 0.205 | 0.00500 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Copper | | 0.210 | 0.0100 | 0.200 | 0 | 105 | 90 | 110 | | | |
| Iron | | 5.17 | 0.100 | 5.00 | 0 | 103 | 90 | 110 | | | |
| Lead | | 0.196 | 0.00100 | 0.200 | 0 | 98.2 | 90 | 110 | | | |
| Manganese | | 0.204 | 0.0100 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Selenium | | 0.201 | 0.00500 | 0.200 | 0 | 100 | 90 | 110 | | | |
| Silver | | 0.202 | 0.00200 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Zinc | | 0.206 | 0.00500 | 0.200 | 0 | 103 | 90 | 110 | | | |
| Sample ID | LCVL4-151210 | Batch ID: | R83060 | TestNo: | SW6020A | Units: | mg/L | | | | |
| SampType: | LCVL | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 1:11:00 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.00508 | 0.00500 | 0.00500 | 0 | 102 | 70 | 130 | | | |
| Barium | | 0.00493 | 0.0100 | 0.00500 | 0 | 98.6 | 70 | 130 | | | |
| Cadmium | | 0.00100 | 0.00100 | 0.00100 | 0 | 100 | 70 | 130 | | | |
| Chromium | | 0.00511 | 0.00500 | 0.00500 | 0 | 102 | 70 | 130 | | | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151210A

| Sample ID | LCVL4-151210 | Batch ID: | R83060 | TestNo: | SW6020A | | Units: | mg/L | | | |
|-----------|--------------|-----------|-----------------|--------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | LCVL | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 1:11:00 PM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Copper | | 0.00523 | 0.0100 | 0.00500 | 0 | 105 | 70 | 130 | | | |
| Iron | | 0.103 | 0.100 | 0.100 | 0 | 103 | 70 | 130 | | | |
| Lead | | 0.000892 | 0.00100 | 0.00100 | 0 | 89.2 | 70 | 130 | | | |
| Manganese | | 0.00504 | 0.0100 | 0.00500 | 0 | 101 | 70 | 130 | | | |
| Selenium | | 0.00560 | 0.00500 | 0.00500 | 0 | 112 | 70 | 130 | | | |
| Silver | | 0.00202 | 0.00200 | 0.00200 | 0 | 101 | 70 | 130 | | | |
| Zinc | | 0.00503 | 0.00500 | 0.00500 | 0 | 101 | 70 | 130 | | | |
| Sample ID | CCV5-151210 | Batch ID: | R83060 | TestNo: | SW6020A | | Units: | mg/L | | | |
| SampType: | CCV | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 1:51:00 PM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.206 | 0.00500 | 0.200 | 0 | 103 | 90 | 110 | | | |
| Barium | | 0.201 | 0.0100 | 0.200 | 0 | 100 | 90 | 110 | | | |
| Cadmium | | 0.199 | 0.00100 | 0.200 | 0 | 99.4 | 90 | 110 | | | |
| Chromium | | 0.207 | 0.00500 | 0.200 | 0 | 103 | 90 | 110 | | | |
| Copper | | 0.212 | 0.0100 | 0.200 | 0 | 106 | 90 | 110 | | | |
| Iron | | 5.20 | 0.100 | 5.00 | 0 | 104 | 90 | 110 | | | |
| Lead | | 0.194 | 0.00100 | 0.200 | 0 | 96.9 | 90 | 110 | | | |
| Manganese | | 0.206 | 0.0100 | 0.200 | 0 | 103 | 90 | 110 | | | |
| Selenium | | 0.204 | 0.00500 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Silver | | 0.200 | 0.00200 | 0.200 | 0 | 100 | 90 | 110 | | | |
| Zinc | | 0.207 | 0.00500 | 0.200 | 0 | 103 | 90 | 110 | | | |
| Sample ID | LCVL5-151210 | Batch ID: | R83060 | TestNo: | SW6020A | | Units: | mg/L | | | |
| SampType: | LCVL | Run ID: | ICP-MS4_151210A | Analysis Date: 12/10/2015 1:56:00 PM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.00526 | 0.00500 | 0.00500 | 0 | 105 | 70 | 130 | | | |
| Barium | | 0.00515 | 0.0100 | 0.00500 | 0 | 103 | 70 | 130 | | | |
| Cadmium | | 0.00104 | 0.00100 | 0.00100 | 0 | 104 | 70 | 130 | | | |
| Chromium | | 0.00512 | 0.00500 | 0.00500 | 0 | 102 | 70 | 130 | | | |
| Copper | | 0.00539 | 0.0100 | 0.00500 | 0 | 108 | 70 | 130 | | | |
| Iron | | 0.108 | 0.100 | 0.100 | 0 | 108 | 70 | 130 | | | |
| Lead | | 0.000868 | 0.00100 | 0.00100 | 0 | 86.8 | 70 | 130 | | | |
| Manganese | | 0.00521 | 0.0100 | 0.00500 | 0 | 104 | 70 | 130 | | | |
| Selenium | | 0.00570 | 0.00500 | 0.00500 | 0 | 114 | 70 | 130 | | | |
| Silver | | 0.00205 | 0.00200 | 0.00200 | 0 | 103 | 70 | 130 | | | |
| Zinc | | 0.00517 | 0.00500 | 0.00500 | 0 | 103 | 70 | 130 | | | |

| | | | | |
|--------------------|----|--|-----|---------------------------------------|
| Qualifiers: | B | Analytic detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analytic detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS4_151210A

| Sample ID | CCV6-151210 | Batch ID: | R83060 | TestNo: | SW6020A | | Units: | mg/L | | | |
|-----------|--------------|-----------|-----------------|----------------|-----------------------|------|------------|-----------|------|----------|------|
| SampType: | CCV | Run ID: | ICP-MS4_151210A | Analysis Date: | 12/10/2015 2:24:00 PM | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Barium | | 0.201 | 0.0100 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Iron | | 5.21 | 0.100 | 5.00 | 0 | 104 | 90 | 110 | | | |
| Sample ID | LCVL6-151210 | Batch ID: | R83060 | TestNo: | SW6020A | | Units: | mg/L | | | |
| SampType: | LCVL | Run ID: | ICP-MS4_151210A | Analysis Date: | 12/10/2015 2:30:00 PM | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Barium | | 0.00498 | 0.0100 | 0.00500 | 0 | 99.6 | 70 | 130 | | | |
| Iron | | 0.106 | 0.100 | 0.100 | 0 | 106 | 70 | 130 | | | |
| Sample ID | CCV7-151210 | Batch ID: | R83060 | TestNo: | SW6020A | | Units: | mg/L | | | |
| SampType: | CCV | Run ID: | ICP-MS4_151210A | Analysis Date: | 12/10/2015 2:54:00 PM | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Barium | | 0.200 | 0.0100 | 0.200 | 0 | 100 | 90 | 110 | | | |
| Iron | | 5.13 | 0.100 | 5.00 | 0 | 103 | 90 | 110 | | | |
| Manganese | | 0.204 | 0.0100 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Sample ID | LCVL7-151210 | Batch ID: | R83060 | TestNo: | SW6020A | | Units: | mg/L | | | |
| SampType: | LCVL | Run ID: | ICP-MS4_151210A | Analysis Date: | 12/10/2015 2:58:00 PM | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Barium | | 0.00503 | 0.0100 | 0.00500 | 0 | 101 | 70 | 130 | | | |
| Iron | | 0.106 | 0.100 | 0.100 | 0 | 106 | 70 | 130 | | | |
| Manganese | | 0.00503 | 0.0100 | 0.00500 | 0 | 101 | 70 | 130 | | | |
| Sample ID | CCV8-151210 | Batch ID: | R83060 | TestNo: | SW6020A | | Units: | mg/L | | | |
| SampType: | CCV | Run ID: | ICP-MS4_151210A | Analysis Date: | 12/10/2015 3:26:00 PM | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Barium | | 0.203 | 0.0100 | 0.200 | 0 | 101 | 90 | 110 | | | |
| Iron | | 5.19 | 0.100 | 5.00 | 0 | 104 | 90 | 110 | | | |
| Manganese | | 0.203 | 0.0100 | 0.200 | 0 | 102 | 90 | 110 | | | |
| Sample ID | LCVL8-151210 | Batch ID: | R83060 | TestNo: | SW6020A | | Units: | mg/L | | | |
| SampType: | LCVL | Run ID: | ICP-MS4_151210A | Analysis Date: | 12/10/2015 3:31:00 PM | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Barium | | 0.00508 | 0.0100 | 0.00500 | 0 | 102 | 70 | 130 | | | |
| Iron | | 0.107 | 0.100 | 0.100 | 0 | 107 | 70 | 130 | | | |
| Manganese | | 0.00513 | 0.0100 | 0.00500 | 0 | 103 | 70 | 130 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_151208A

The QC data in batch 72578 applies to the following samples: 1512052-01C, 1512052-02C, 1512052-03C, 1512052-04C, 1512052-05C, 1512052-06C, 1512052-07C, 1512052-08C, 1512052-09C, 1512052-10C, 1512052-11C, 1512052-12C, 1512052-13C, 1512052-14C, 1512052-15C, 1512052-16C

| Sample ID | LCS-72578 | Batch ID: | 72578 | TestNo: | SW8270D | | Units: | mg/Kg | | | |
|---------------------------|-----------------|-----------|---------------|----------------|-----------------------|------|------------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | GCMS8_151208A | Analysis Date: | 12/8/2015 10:47:00 AM | | Prep Date: | 12/7/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Aroclor 1016 | | 0.654 | 0.0333 | 0.6667 | 0 | 98.1 | 41 | 138 | | | |
| Aroclor 1260 | | 0.576 | 0.0333 | 0.6667 | 0 | 86.4 | 61 | 131 | | | |
| Polychlorinated biphenyls | | 1.23 | 0.0333 | 1.333 | 0 | 92.3 | 41 | 138 | | | N |
| Surr: 2-Fluorobiphenyl | | 0.653 | | 0.6667 | | 97.9 | 43 | 125 | | | |
| Surr: 4-Terphenyl-d14 | | 0.613 | | 0.6667 | | 91.9 | 32 | 125 | | | |
| Sample ID | 1512052-07CMS | Batch ID: | 72578 | TestNo: | SW8270D | | Units: | mg/Kg-dry | | | |
| SampType: | MS | Run ID: | GCMS8_151208A | Analysis Date: | 12/8/2015 11:17:00 AM | | Prep Date: | 12/7/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Aroclor 1016 | | 0.640 | 0.0341 | 0.6822 | 0 | 93.8 | 41 | 138 | | | |
| Aroclor 1260 | | 0.565 | 0.0341 | 0.6822 | 0 | 82.9 | 61 | 131 | | | |
| Polychlorinated biphenyls | | 1.21 | 0.0341 | 1.364 | 0 | 88.3 | 41 | 138 | | | N |
| Surr: 2-Fluorobiphenyl | | 0.654 | | 0.6822 | | 95.8 | 43 | 125 | | | |
| Surr: 4-Terphenyl-d14 | | 0.599 | | 0.6822 | | 87.8 | 32 | 125 | | | |
| Sample ID | 1512052-07CMSPD | Batch ID: | 72578 | TestNo: | SW8270D | | Units: | mg/Kg-dry | | | |
| SampType: | MSD | Run ID: | GCMS8_151208A | Analysis Date: | 12/8/2015 11:48:00 AM | | Prep Date: | 12/7/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Aroclor 1016 | | 0.622 | 0.0334 | 0.6682 | 0 | 93.0 | 41 | 138 | 2.93 | 50 | |
| Aroclor 1260 | | 0.545 | 0.0334 | 0.6682 | 0 | 81.6 | 61 | 131 | 3.59 | 50 | |
| Polychlorinated biphenyls | | 1.17 | 0.0334 | 1.336 | 0 | 87.3 | 41 | 138 | 3.24 | 50 | N |
| Surr: 2-Fluorobiphenyl | | 0.635 | | 0.6682 | | 95.1 | 43 | 125 | 0 | 0 | |
| Surr: 4-Terphenyl-d14 | | 0.575 | | 0.6682 | | 86.1 | 32 | 125 | 0 | 0 | |
| Sample ID | MB-72578 | Batch ID: | 72578 | TestNo: | SW8270D | | Units: | mg/Kg | | | |
| SampType: | MBLK | Run ID: | GCMS8_151208A | Analysis Date: | 12/8/2015 12:19:00 PM | | Prep Date: | 12/7/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Aroclor 1016 | | <0.0333 | 0.0333 | | | | | | | | |
| Aroclor 1221 | | <0.0333 | 0.0333 | | | | | | | | |
| Aroclor 1232 | | <0.0333 | 0.0333 | | | | | | | | |
| Aroclor 1242 | | <0.0333 | 0.0333 | | | | | | | | |
| Aroclor 1248 | | <0.0333 | 0.0333 | | | | | | | | |
| Aroclor 1254 | | <0.0333 | 0.0333 | | | | | | | | |
| Aroclor 1260 | | <0.0333 | 0.0333 | | | | | | | | |
| Polychlorinated biphenyls | | <0.0333 | 0.0333 | | | | | | | | N |
| Surr: 2-Fluorobiphenyl | | 0.592 | | 0.6667 | | 88.8 | 43 | 125 | | | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analytic detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analytic detected between SDL and RL | N | Parameter not NELAC certified |

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_151208A

| Sample ID: MB-72578 | Batch ID: 72578 | TestNo: | SW8270D | Units: | mg/Kg |
|---------------------|-----------------------|----------------|-----------------------|------------|-----------|
| SampType: MBLK | Run ID: GCMS8_151208A | Analysis Date: | 12/8/2015 12:19:00 PM | Prep Date: | 12/7/2015 |
| <hr/> | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC |

Surrogate: 4-Terphenyl-d14 Result: 0.567 SPK value: 0.6667 Ref Val: 85.0 %REC: 32 LowLimit: 125

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_151208A

| Sample ID | ICV-151208 | Batch ID: | R83000 | TestNo: | SW8270D | | Units: | mg/Kg | | | |
|-----------------------------|------------|-----------|---------------|----------------|-----------------------|------|------------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GCMS8_151208A | Analysis Date: | 12/8/2015 10:16:00 AM | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Aroclor 1016 | | 2.37 | 0.0500 | 2.000 | 0 | 119 | 80 | 120 | | | |
| Aroclor 1260 | | 2.07 | 0.0500 | 2.000 | 0 | 104 | 80 | 120 | | | |
| Polychlorinated biphenyls | | 4.44 | 0.0500 | 4.000 | 0 | 111 | 80 | 120 | | | N |
| Surrogate: 2-Fluorobiphenyl | | 2.30 | | 2.000 | | 115 | 80 | 120 | | | |
| Surrogate: 4-Terphenyl-d14 | | 1.97 | | 2.000 | | 98.7 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_151208C

The QC data in batch 72576 applies to the following samples: 1512052-01C, 1512052-02C, 1512052-03C, 1512052-04C, 1512052-05C, 1512052-06C, 1512052-07C, 1512052-08C, 1512052-09C, 1512052-10C, 1512052-11C, 1512052-12C, 1512052-13C, 1512052-14C, 1512052-15C, 1512052-16C

| Sample ID | LCS-72576 | Batch ID: | 72576 | TestNo: | SW8270D | | Units: | mg/Kg | | | |
|----------------------------|-----------|-----------|---------------|-------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | GCMS9_151208C | Analysis Date: 12/8/2015 5:13:00 PM | | | Prep Date: | 12/7/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1-Methylnaphthalene | | 1.06 | 0.0266 | 1.340 | 0 | 79.2 | 40 | 125 | | | N |
| 2,3,4,6-Tetrachlorophenol | | 1.33 | 0.0266 | 1.340 | 0 | 99.1 | 40 | 125 | | | |
| 2,4,5-Trichlorophenol | | 1.19 | 0.0266 | 1.340 | 0 | 89.0 | 49 | 125 | | | |
| 2,4,6-Trichlorophenol | | 1.21 | 0.0266 | 1.340 | 0 | 90.1 | 43 | 125 | | | |
| 2,4-Dichlorophenol | | 1.14 | 0.0266 | 1.340 | 0 | 85.0 | 45 | 125 | | | |
| 2,4-Dimethylphenol | | 1.03 | 0.0266 | 1.340 | 0 | 77.0 | 32 | 125 | | | |
| 2,4-Dinitrophenol | | 1.25 | 0.132 | 1.340 | 0 | 93.0 | 25 | 132 | | | |
| 2,6-Dichlorophenol | | 1.11 | 0.0266 | 1.340 | 0 | 82.5 | 38 | 125 | | | |
| 2-Chlorophenol | | 1.10 | 0.0266 | 1.340 | 0 | 82.4 | 44 | 125 | | | |
| 2-Methylnaphthalene | | 1.08 | 0.0266 | 1.340 | 0 | 80.6 | 47 | 125 | | | |
| 2-Methylphenol | | 1.02 | 0.0266 | 1.340 | 0 | 76.3 | 40 | 125 | | | |
| 2-Nitrophenol | | 1.11 | 0.0266 | 1.340 | 0 | 83.0 | 42 | 125 | | | |
| 4,6-Dinitro-2-methylphenol | | 1.23 | 0.0660 | 1.340 | 0 | 91.9 | 29 | 137 | | | |
| 4-Chloro-3-methylphenol | | 1.09 | 0.0266 | 1.340 | 0 | 81.4 | 46 | 125 | | | |
| 4-Methylphenol | | 0.905 | 0.0266 | 1.340 | 0 | 67.6 | 41 | 125 | | | |
| 4-Nitrophenol | | 1.33 | 0.132 | 1.340 | 0 | 99.1 | 25 | 138 | | | |
| Benz[a]pyrene | | 1.25 | 0.0266 | 1.340 | 0 | 93.4 | 50 | 125 | | | |
| Naphthalene | | 1.10 | 0.0266 | 1.340 | 0 | 82.0 | 40 | 125 | | | |
| Pentachlorophenol | | 1.46 | 0.0266 | 1.340 | 0 | 109 | 25 | 125 | | | |
| Phenol | | 1.08 | 0.0266 | 1.340 | 0 | 80.8 | 25 | 125 | | | |
| Total Phenol (Calculated) | | 17.5 | 0.0266 | 0 | 0 | 0 | 0 | 0 | | | |
| Surr: 2,4,6-Tribromophenol | | 0.567 | | 0.6670 | | 85.0 | 45 | 138 | | | |
| Surr: 2-Fluorobiphenyl | | 0.527 | | 0.6670 | | 79.0 | 60 | 135 | | | |
| Surr: 2-Fluorophenol | | 0.513 | | 0.6670 | | 77.0 | 37 | 125 | | | |
| Surr: 4-Terphenyl-d14 | | 0.567 | | 0.6670 | | 85.0 | 60 | 129 | | | |
| Surr: Nitrobenzene-d5 | | 0.513 | | 0.6670 | | 77.0 | 45 | 125 | | | |
| Surr: Phenol-d5 | | 0.500 | | 0.6670 | | 75.0 | 40 | 125 | | | |

| Sample ID | 1512052-07CMS | Batch ID: | 72576 | TestNo: | SW8270D | | Units: | mg/Kg-dry | | | |
|---------------------------|---------------|-----------|---------------|-------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | MS | Run ID: | GCMS9_151208C | Analysis Date: 12/8/2015 5:38:00 PM | | | Prep Date: | 12/7/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1-Methylnaphthalene | | 1.11 | 0.0271 | 1.366 | 0 | 81.1 | 40 | 125 | | | N |
| 2,3,4,6-Tetrachlorophenol | | 1.36 | 0.0271 | 1.366 | 0 | 99.4 | 40 | 125 | | | |
| 2,4,5-Trichlorophenol | | 1.25 | 0.0271 | 1.366 | 0 | 91.6 | 49 | 125 | | | |
| 2,4,6-Trichlorophenol | | 1.27 | 0.0271 | 1.366 | 0 | 93.1 | 43 | 125 | | | |
| 2,4-Dichlorophenol | | 1.20 | 0.0271 | 1.366 | 0 | 87.9 | 45 | 125 | | | |
| 2,4-Dimethylphenol | | 1.12 | 0.0271 | 1.366 | 0 | 82.2 | 32 | 125 | | | |
| 2,4-Dinitrophenol | | 0.512 | 0.135 | 1.366 | 0 | 37.5 | 25 | 132 | | | |

| | | | | | | | |
|--------------------|----|---|-----|---------------------------------------|--|--|--|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor | | | |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit | | | |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits | | | |
| | RL | Reporting Limit | S | Spike Recovery outside control limits | | | |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified | | | |

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_151208C

| Sample ID | 1512052-07CMS | Batch ID: | 72576 | TestNo: | SW8270D | | Units: | mg/Kg-dry | | | |
|----------------------------|---------------|-----------|---------------|-------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | MS | Run ID: | GCMS9_151208C | Analysis Date: 12/8/2015 5:38:00 PM | | | Prep Date: | 12/7/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 2,6-Dichlorophenol | | 1.17 | 0.0271 | 1.366 | 0 | 85.9 | 38 | 125 | | | |
| 2-Chlorophenol | | 1.17 | 0.0271 | 1.366 | 0 | 85.8 | 44 | 125 | | | |
| 2-Methylnaphthalene | | 1.12 | 0.0271 | 1.366 | 0 | 82.2 | 47 | 125 | | | |
| 2-Methylphenol | | 1.10 | 0.0271 | 1.366 | 0 | 80.4 | 40 | 125 | | | |
| 2-Nitrophenol | | 1.13 | 0.0271 | 1.366 | 0 | 82.6 | 42 | 125 | | | |
| 4,6-Dinitro-2-methylphenol | | 0.868 | 0.0673 | 1.366 | 0 | 63.6 | 29 | 137 | | | |
| 4-Chloro-3-methylphenol | | 1.15 | 0.0271 | 1.366 | 0 | 84.0 | 46 | 125 | | | |
| 4-Methylphenol | | 0.959 | 0.0271 | 1.366 | 0 | 70.2 | 41 | 125 | | | |
| 4-Nitrophenol | | 1.30 | 0.135 | 1.366 | 0 | 95.2 | 25 | 138 | | | |
| Benzo[a]pyrene | | 1.28 | 0.0271 | 1.366 | 0 | 94.0 | 50 | 125 | | | |
| Naphthalene | | 1.13 | 0.0271 | 1.366 | 0 | 83.0 | 40 | 125 | | | |
| Pentachlorophenol | | 1.32 | 0.0271 | 1.366 | 0 | 96.4 | 25 | 125 | | | |
| Phenol | | 1.16 | 0.0271 | 1.366 | 0 | 84.7 | 25 | 125 | | | |
| Surr: 2,4,6-Tribromophenol | | 0.598 | | 0.6799 | | 88.0 | 45 | 138 | | | |
| Surr: 2-Fluorobiphenyl | | 0.564 | | 0.6799 | | 83.0 | 60 | 135 | | | |
| Surr: 2-Fluorophenol | | 0.550 | | 0.6799 | | 81.0 | 37 | 125 | | | |
| Surr: 4-Terphenyl-d14 | | 0.612 | | 0.6799 | | 90.0 | 60 | 129 | | | |
| Surr: Nitrobenzene-d5 | | 0.544 | | 0.6799 | | 80.0 | 45 | 125 | | | |
| Surr: Phenol-d5 | | 0.530 | | 0.6799 | | 78.0 | 40 | 125 | | | |

| Sample ID | 1512052-07CMSPD | Batch ID: | 72576 | TestNo: | SW8270D | | Units: | mg/Kg-dry | | | |
|----------------------------|-----------------|-----------|---------------|-------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | MSD | Run ID: | GCMS9_151208C | Analysis Date: 12/8/2015 6:03:00 PM | | | Prep Date: | 12/7/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1-Methylnaphthalene | | 1.15 | 0.0272 | 1.369 | 0 | 83.8 | 40 | 125 | 3.45 | 30 | N |
| 2,3,4,6-Tetrachlorophenol | | 1.43 | 0.0272 | 1.369 | 0 | 105 | 40 | 125 | 5.32 | 30 | |
| 2,4,5-Trichlorophenol | | 1.30 | 0.0272 | 1.369 | 0 | 95.2 | 49 | 125 | 3.98 | 30 | |
| 2,4,6-Trichlorophenol | | 1.30 | 0.0272 | 1.369 | 0 | 94.6 | 43 | 125 | 1.79 | 30 | |
| 2,4-Dichlorophenol | | 1.26 | 0.0272 | 1.369 | 0 | 92.1 | 45 | 125 | 4.84 | 30 | |
| 2,4-Dimethylphenol | | 1.17 | 0.0272 | 1.369 | 0 | 85.4 | 32 | 125 | 4.05 | 30 | |
| 2,4-Dinitrophenol | | 0.675 | 0.135 | 1.369 | 0 | 49.4 | 25 | 132 | 27.6 | 30 | |
| 2,6-Dichlorophenol | | 1.22 | 0.0272 | 1.369 | 0 | 89.0 | 38 | 125 | 3.72 | 30 | |
| 2-Chlorophenol | | 1.20 | 0.0272 | 1.369 | 0 | 87.4 | 44 | 125 | 2.09 | 30 | |
| 2-Methylnaphthalene | | 1.15 | 0.0272 | 1.369 | 0 | 84.1 | 47 | 125 | 2.47 | 30 | |
| 2-Methylphenol | | 1.16 | 0.0272 | 1.369 | 0 | 84.4 | 40 | 125 | 5.02 | 30 | |
| 2-Nitrophenol | | 1.15 | 0.0272 | 1.369 | 0 | 84.1 | 42 | 125 | 1.99 | 30 | |
| 4,6-Dinitro-2-methylphenol | | 1.00 | 0.0674 | 1.369 | 0 | 73.3 | 29 | 137 | 14.4 | 30 | |
| 4-Chloro-3-methylphenol | | 1.29 | 0.0272 | 1.369 | 0 | 94.2 | 46 | 125 | 11.6 | 30 | |
| 4-Methylphenol | | 1.02 | 0.0272 | 1.369 | 0 | 74.2 | 41 | 125 | 5.71 | 30 | |
| 4-Nitrophenol | | 1.34 | 0.135 | 1.369 | 0 | 98.0 | 25 | 138 | 3.08 | 30 | |
| Benzo[a]pyrene | | 1.30 | 0.0272 | 1.369 | 0 | 94.8 | 50 | 125 | 1.09 | 30 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_151208C

| Sample ID | 1512052-07CMSD | Batch ID: | 72576 | TestNo: | SW8270D | | Units: | mg/Kg-dry | | | |
|----------------------------|--|-----------|---------------|-------------------------------------|---------|------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | GCMS9_151208C | Analysis Date: 12/8/2015 6:03:00 PM | | | Prep Date: | 12/7/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Naphthalene | | 1.13 | 0.0272 | 1.369 | 0 | 82.4 | 40 | 125 | 0.586 | 30 | |
| Pentachlorophenol | | 1.38 | 0.0272 | 1.369 | 0 | 101 | 25 | 125 | 4.88 | 30 | |
| Phenol | | 1.19 | 0.0272 | 1.369 | 0 | 87.3 | 25 | 125 | 3.15 | 30 | |
| Surr: 2,4,6-Tribromophenol | | 0.620 | | 0.6812 | | 91.0 | 45 | 138 | 0 | 0 | |
| Surr: 2-Fluorobiphenyl | | 0.552 | | 0.6812 | | 81.0 | 60 | 135 | 0 | 0 | |
| Surr: 2-Fluorophenol | | 0.552 | | 0.6812 | | 81.0 | 37 | 125 | 0 | 0 | |
| Surr: 4-Terphenyl-d14 | | 0.626 | | 0.6812 | | 92.0 | 60 | 129 | 0 | 0 | |
| Surr: Nitrobenzene-d5 | | 0.545 | | 0.6812 | | 80.0 | 45 | 125 | 0 | 0 | |
| Surr: Phenol-d5 | | 0.545 | | 0.6812 | | 80.0 | 40 | 125 | 0 | 0 | |
| Sample ID | MB-72576 | Batch ID: | 72576 | TestNo: | SW8270D | | Units: | mg/Kg | | | |
| SampType: | MBLK <th>Run ID:</th> <td>GCMS9_151208C</td> <th data-cs="3" data-kind="parent">Analysis Date: 12/8/2015 7:18:00 PM</th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th>Prep Date:</th> <td data-cs="3" data-kind="parent">12/7/2015</td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> | Run ID: | GCMS9_151208C | Analysis Date: 12/8/2015 7:18:00 PM | | | Prep Date: | 12/7/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1-Methylnaphthalene | | <0.0266 | 0.0266 | | | | | | | | N |
| 2,3,4,6-Tetrachlorophenol | | <0.0266 | 0.0266 | | | | | | | | |
| 2,4,5-Trichlorophenol | | <0.0266 | 0.0266 | | | | | | | | |
| 2,4,6-Trichlorophenol | | <0.0266 | 0.0266 | | | | | | | | |
| 2,4-Dichlorophenol | | <0.0266 | 0.0266 | | | | | | | | |
| 2,4-Dimethylphenol | | <0.0266 | 0.0266 | | | | | | | | |
| 2,4-Dinitrophenol | | <0.132 | 0.132 | | | | | | | | |
| 2,6-Dichlorophenol | | <0.0266 | 0.0266 | | | | | | | | |
| 2-Chlorophenol | | <0.0266 | 0.0266 | | | | | | | | |
| 2-Methylnaphthalene | | <0.0266 | 0.0266 | | | | | | | | |
| 2-Methylphenol | | <0.0266 | 0.0266 | | | | | | | | |
| 2-Nitrophenol | | <0.0266 | 0.0266 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | | <0.0660 | 0.0660 | | | | | | | | |
| 4-Chloro-3-methylphenol | | <0.0266 | 0.0266 | | | | | | | | |
| 4-Methylphenol | | <0.0266 | 0.0266 | | | | | | | | |
| 4-Nitrophenol | | <0.132 | 0.132 | | | | | | | | |
| Benzo[a]pyrene | | <0.0266 | 0.0266 | | | | | | | | |
| Naphthalene | | <0.0266 | 0.0266 | | | | | | | | |
| Pentachlorophenol | | <0.0266 | 0.0266 | | | | | | | | |
| Phenol | | <0.0266 | 0.0266 | | | | | | | | |
| Total Phenol (Calculated) | | <0.0266 | 0.0266 | | | | | | | | |
| Surr: 2,4,6-Tribromophenol | | 0.620 | | 0.6670 | | 93.0 | 45 | 138 | | | |
| Surr: 2-Fluorobiphenyl | | 0.573 | | 0.6670 | | 86.0 | 60 | 135 | | | |
| Surr: 2-Fluorophenol | | 0.560 | | 0.6670 | | 84.0 | 37 | 125 | | | |
| Surr: 4-Terphenyl-d14 | | 0.660 | | 0.6670 | | 99.0 | 60 | 129 | | | |
| Surr: Nitrobenzene-d5 | | 0.533 | | 0.6670 | | 80.0 | 45 | 125 | | | |
| Surr: Phenol-d5 | | 0.573 | | 0.6670 | | 86.0 | 40 | 125 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_151208C

| Sample ID | ICV-151208 | Batch ID: | R82999 | TestNo: | SW8270D | | Units: | mg/Kg | | | |
|---------------------------------|------------|-----------|---------------|-------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GCMS9_151208C | Analysis Date: 12/8/2015 4:49:00 PM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1-Methylnaphthalene | | 3.44 | 0.0266 | 4.000 | 0 | 86.1 | 80 | 120 | | | N |
| 2,3,4,6-Tetrachlorophenol | | 4.38 | 0.0266 | 4.000 | 0 | 110 | 80 | 120 | | | |
| 2,4,5-Trichlorophenol | | 4.00 | 0.0266 | 4.000 | 0 | 99.9 | 80 | 120 | | | |
| 2,4,6-Trichlorophenol | | 4.04 | 0.0266 | 4.000 | 0 | 101 | 80 | 120 | | | |
| 2,4-Dichlorophenol | | 3.94 | 0.0266 | 4.000 | 0 | 98.5 | 80 | 120 | | | |
| 2,4-Dimethylphenol | | 3.76 | 0.0266 | 4.000 | 0 | 94.0 | 80 | 120 | | | |
| 2,4-Dinitrophenol | | 3.92 | 0.132 | 4.000 | 0 | 97.9 | 80 | 120 | | | |
| 2,6-Dichlorophenol | | 3.72 | 0.0266 | 4.000 | 0 | 93.0 | 80 | 120 | | | |
| 2-Chlorophenol | | 3.89 | 0.0266 | 4.000 | 0 | 97.2 | 80 | 120 | | | |
| 2-Methylnaphthalene | | 3.45 | 0.0266 | 4.000 | 0 | 86.2 | 80 | 120 | | | |
| 2-Methylphenol | | 3.52 | 0.0266 | 4.000 | 0 | 88.0 | 80 | 120 | | | |
| 2-Nitrophenol | | 3.92 | 0.0266 | 4.000 | 0 | 98.0 | 80 | 120 | | | |
| 4,6-Dinitro-2-methylphenol | | 3.96 | 0.0660 | 4.000 | 0 | 99.1 | 80 | 120 | | | |
| 4-Chloro-3-methylphenol | | 3.97 | 0.0266 | 4.000 | 0 | 99.4 | 80 | 120 | | | |
| 4-Methylphenol | | 2.98 | 0.0266 | 4.000 | 0 | 74.5 | 80 | 120 | | | S |
| 4-Nitrophenol | | 3.89 | 0.132 | 4.000 | 0 | 97.2 | 80 | 120 | | | |
| Benzo[a]pyrene | | 3.69 | 0.0266 | 4.000 | 0 | 92.2 | 80 | 120 | | | |
| Naphthalene | | 3.41 | 0.0266 | 4.000 | 0 | 85.3 | 80 | 120 | | | |
| Pentachlorophenol | | 4.29 | 0.0266 | 4.000 | 0 | 107 | 80 | 120 | | | |
| Phenol | | 3.56 | 0.0266 | 4.000 | 0 | 89.0 | 80 | 120 | | | |
| Total Phenol (Calculated) | | 57.8 | 0.0266 | 0 | | | | | | | |
| Surrogate: 2,4,6-Tribromophenol | | 4.29 | | 4.000 | | 107 | 80 | 120 | | | |
| Surrogate: 2-Fluorobiphenyl | | 3.28 | | 4.000 | | 82.0 | 80 | 120 | | | |
| Surrogate: 2-Fluorophenol | | 4.05 | | 4.000 | | 101 | 80 | 120 | | | |
| Surrogate: 4-Terphenyl-d14 | | 3.30 | | 4.000 | | 82.5 | 80 | 120 | | | |
| Surrogate: Nitrobenzene-d5 | | 3.91 | | 4.000 | | 97.8 | 80 | 120 | | | |
| Surrogate: Phenol-d5 | | 3.70 | | 4.000 | | 92.5 | 80 | 120 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_151207A

The QC data in batch 72585 applies to the following samples: 1512052-01A, 1512052-02A, 1512052-03A, 1512052-04A, 1512052-05A, 1512052-06A, 1512052-07A, 1512052-08A, 1512052-09A, 1512052-10A, 1512052-11A, 1512052-12A, 1512052-13A, 1512052-14A, 1512052-15A, 1512052-16A

| Sample ID | LCS-72585 | Batch ID: | 72585 | TestNo: | SW8260C | Units: | mg/Kg | | | | |
|-----------------------------|-----------|-----------|---------------|--------------------------------------|---------|------------|-----------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | GCMS1_151207A | Analysis Date: 12/7/2015 11:54:00 AM | | Prep Date: | 12/7/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane | | 0.0246 | 0.00500 | 0.0232 | 0 | 106 | 68 | 130 | | | |
| 1,1,2,2-Tetrachloroethane | | 0.0226 | 0.00500 | 0.0232 | 0 | 97.4 | 59 | 140 | | | |
| 1,1,2-Trichloroethane | | 0.0256 | 0.00500 | 0.0232 | 0 | 110 | 62 | 127 | | | |
| 1,1-Dichloroethane | | 0.0241 | 0.00500 | 0.0232 | 0 | 104 | 73 | 125 | | | |
| 1,1-Dichloroethylene | | 0.0231 | 0.00500 | 0.0232 | 0 | 99.6 | 65 | 136 | | | |
| 1,2-Dichloroethane | | 0.0246 | 0.00500 | 0.0232 | 0 | 106 | 72 | 137 | | | |
| Benzene | | 0.0244 | 0.00500 | 0.0232 | 0 | 105 | 75 | 125 | | | |
| Carbon tetrachloride | | 0.0253 | 0.00500 | 0.0232 | 0 | 109 | 67 | 133 | | | |
| Chloroform | | 0.0248 | 0.00500 | 0.0232 | 0 | 107 | 72 | 124 | | | |
| Ethylbenzene | | 0.0215 | 0.00500 | 0.0232 | 0 | 92.7 | 75 | 125 | | | |
| Ethylene bromide | | 0.0216 | 0.00500 | 0.0232 | 0 | 93.2 | 70 | 124 | | | |
| Methylene chloride | | 0.0268 | 0.00500 | 0.0232 | 0 | 116 | 63 | 137 | | | |
| Tetrachloroethylene | | 0.0220 | 0.00500 | 0.0232 | 0 | 94.8 | 67 | 139 | | | |
| Toluene | | 0.0250 | 0.00500 | 0.0232 | 0 | 108 | 75 | 125 | | | |
| Trichloroethylene | | 0.0244 | 0.00500 | 0.0232 | 0 | 105 | 77 | 124 | | | |
| Vinyl chloride | | 0.0215 | 0.00500 | 0.0232 | 0 | 92.8 | 58 | 126 | | | |
| Total Xylenes | | 0.0657 | 0.00500 | 0.0696 | 0 | 94.4 | 75 | 125 | | | |
| Surr: 1,2-Dichloroethane-d4 | | 51.2 | | 50.00 | | 102 | 52 | 149 | | | |
| Surr: 4-Bromofluorobenzene | | 49.5 | | 50.00 | | 99.0 | 84 | 118 | | | |
| Surr: Dibromofluoromethane | | 52.3 | | 50.00 | | 105 | 65 | 135 | | | |
| Surr: Toluene-d8 | | 45.8 | | 50.00 | | 91.6 | 84 | 116 | | | |

| Sample ID | MB-72585 | Batch ID: | 72585 | TestNo: | SW8260C | Units: | mg/Kg | | | | |
|---------------------------|----------|-----------|---------------|--------------------------------------|---------|------------|-----------|-----------|------|----------|------|
| SampType: | MBLK | Run ID: | GCMS1_151207A | Analysis Date: 12/7/2015 12:57:00 PM | | Prep Date: | 12/7/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane | | <0.00500 | 0.00500 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | | <0.00500 | 0.00500 | | | | | | | | |
| 1,1,2-Trichloroethane | | <0.00500 | 0.00500 | | | | | | | | |
| 1,1-Dichloroethane | | <0.00500 | 0.00500 | | | | | | | | |
| 1,1-Dichloroethylene | | <0.00500 | 0.00500 | | | | | | | | |
| 1,2-Dichloroethane | | <0.00500 | 0.00500 | | | | | | | | |
| Benzene | | <0.00500 | 0.00500 | | | | | | | | |
| Carbon tetrachloride | | <0.00500 | 0.00500 | | | | | | | | |
| Chloroform | | <0.00500 | 0.00500 | | | | | | | | |
| Ethylbenzene | | <0.00500 | 0.00500 | | | | | | | | |
| Ethylene bromide | | <0.00500 | 0.00500 | | | | | | | | |
| Methylene chloride | | <0.00500 | 0.00500 | | | | | | | | |
| Tetrachloroethylene | | <0.00500 | 0.00500 | | | | | | | | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_151207A

| Sample ID | MB-72585 | Batch ID: | 72585 | TestNo: | SW8260C | Units: | mg/Kg | | | | |
|-----------------------------|----------|-----------|---------------|--------------------------------------|---------|------------|-----------|-----------|------|----------|------|
| SampType: | MBLK | Run ID: | GCMS1_151207A | Analysis Date: 12/7/2015 12:57:00 PM | | Prep Date: | 12/7/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Toluene | | <0.00500 | 0.00500 | | | | | | | | |
| Trichloroethylene | | <0.00500 | 0.00500 | | | | | | | | |
| Vinyl chloride | | <0.00500 | 0.00500 | | | | | | | | |
| Total Xylenes | | <0.00500 | 0.00500 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | | 50.7 | | 50.00 | | 101 | 52 | 149 | | | |
| Surr: 4-Bromofluorobenzene | | 49.9 | | 50.00 | | 99.8 | 84 | 118 | | | |
| Surr: Dibromofluoromethane | | 51.9 | | 50.00 | | 104 | 65 | 135 | | | |
| Surr: Toluene-d8 | | 45.7 | | 50.00 | | 91.4 | 84 | 116 | | | |

| Sample ID | 1512052-01AMS | Batch ID: | 72585 | TestNo: | SW8260C | Units: | mg/Kg-dry | | | | |
|-----------------------------|---------------|-----------|---------------|-------------------------------------|---------|------------|-----------|-----------|------|----------|------|
| SampType: | MS | Run ID: | GCMS1_151207A | Analysis Date: 12/7/2015 9:46:00 PM | | Prep Date: | 12/7/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane | | 0.0232 | 0.00520 | 0.0241 | 0 | 96.0 | 68 | 130 | | | |
| 1,1,2,2-Tetrachloroethane | | 0.0175 | 0.00520 | 0.0241 | 0 | 72.4 | 59 | 140 | | | |
| 1,1,2-Trichloroethane | | 0.0237 | 0.00520 | 0.0241 | 0 | 98.3 | 62 | 127 | | | |
| 1,1-Dichloroethane | | 0.0231 | 0.00520 | 0.0241 | 0 | 95.8 | 73 | 125 | | | |
| 1,1-Dichloroethylene | | 0.0219 | 0.00520 | 0.0241 | 0 | 90.9 | 65 | 136 | | | |
| 1,2-Dichloroethane | | 0.0241 | 0.00520 | 0.0241 | 0 | 99.9 | 72 | 137 | | | |
| Benzene | | 0.0225 | 0.00520 | 0.0241 | 0 | 93.2 | 73 | 126 | | | |
| Carbon tetrachloride | | 0.0236 | 0.00520 | 0.0241 | 0 | 97.7 | 67 | 133 | | | |
| Chloroform | | 0.0232 | 0.00520 | 0.0241 | 0 | 96.1 | 72 | 124 | | | |
| Ethylbenzene | | 0.0193 | 0.00520 | 0.0241 | 0 | 80.0 | 74 | 127 | | | |
| Ethylene bromide | | 0.0204 | 0.00520 | 0.0241 | 0 | 84.4 | 70 | 124 | | | |
| Methylene chloride | | 0.0261 | 0.00520 | 0.0241 | 0 | 108 | 63 | 137 | | | |
| Tetrachloroethylene | | 0.0189 | 0.00520 | 0.0241 | 0 | 78.2 | 67 | 139 | | | |
| Toluene | | 0.0225 | 0.00520 | 0.0241 | 0 | 93.2 | 71 | 127 | | | |
| Trichloroethylene | | 0.0248 | 0.00520 | 0.0241 | 0 | 103 | 77 | 124 | | | |
| Vinyl chloride | | 0.0200 | 0.00520 | 0.0241 | 0 | 82.8 | 58 | 126 | | | |
| Total Xylenes | | 0.0577 | 0.00520 | 0.0724 | 0 | 79.7 | 75 | 125 | | | |
| Surr: 1,2-Dichloroethane-d4 | | 57.2 | | 52.00 | | 110 | 52 | 149 | | | |
| Surr: 4-Bromofluorobenzene | | 51.6 | | 52.00 | | 99.2 | 84 | 118 | | | |
| Surr: Dibromofluoromethane | | 56.3 | | 52.00 | | 108 | 65 | 135 | | | |
| Surr: Toluene-d8 | | 48.8 | | 52.00 | | 93.8 | 84 | 116 | | | |

| Sample ID | 1512052-01AMSD | Batch ID: | 72585 | TestNo: | SW8260C | Units: | mg/Kg-dry | | | | |
|---------------------------|----------------|-----------|---------------|--------------------------------------|---------|------------|-----------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | GCMS1_151207A | Analysis Date: 12/7/2015 10:17:00 PM | | Prep Date: | 12/7/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane | | 0.0230 | 0.00528 | 0.0245 | 0 | 93.9 | 68 | 130 | 0.727 | 30 | |
| 1,1,2,2-Tetrachloroethane | | 0.0174 | 0.00528 | 0.0245 | 0 | 71.0 | 59 | 140 | 0.472 | 30 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_151207A

| Sample ID | 1512052-01AMSD | Batch ID: | 72585 | TestNo: | SW8260C | | Units: | mg/Kg-dry | | | |
|-----------------------------|----------------|-----------|---------------|-----------|--------------------------------------|------|------------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | GCMS1_151207A | | Analysis Date: 12/7/2015 10:17:00 PM | | Prep Date: | 12/7/2015 | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,2-Trichloroethane | | 0.0234 | 0.00528 | 0.0245 | 0 | 95.7 | 62 | 127 | 1.18 | 30 | |
| 1,1-Dichloroethane | | 0.0227 | 0.00528 | 0.0245 | 0 | 92.9 | 73 | 125 | 1.58 | 30 | |
| 1,1-Dichloroethylene | | 0.0214 | 0.00528 | 0.0245 | 0 | 87.6 | 65 | 136 | 2.28 | 30 | |
| 1,2-Dichloroethane | | 0.0237 | 0.00528 | 0.0245 | 0 | 96.7 | 72 | 137 | 1.85 | 30 | |
| Benzene | | 0.0224 | 0.00528 | 0.0245 | 0 | 91.5 | 73 | 126 | 0.354 | 30 | |
| Carbon tetrachloride | | 0.0232 | 0.00528 | 0.0245 | 0 | 94.7 | 67 | 133 | 1.65 | 30 | |
| Chloroform | | 0.0230 | 0.00528 | 0.0245 | 0 | 93.9 | 72 | 124 | 0.879 | 30 | |
| Ethylbenzene | | 0.0192 | 0.00528 | 0.0245 | 0 | 78.4 | 74 | 127 | 0.504 | 30 | |
| Ethylene bromide | | 0.0202 | 0.00528 | 0.0245 | 0 | 82.4 | 70 | 124 | 0.975 | 30 | |
| Methylene chloride | | 0.0251 | 0.00528 | 0.0245 | 0 | 102 | 63 | 137 | 4.00 | 30 | |
| Tetrachloroethylene | | 0.0185 | 0.00528 | 0.0245 | 0 | 75.4 | 67 | 139 | 2.14 | 30 | |
| Toluene | | 0.0222 | 0.00528 | 0.0245 | 0 | 90.7 | 71 | 127 | 1.16 | 30 | |
| Trichloroethylene | | 0.0247 | 0.00528 | 0.0245 | 0 | 101 | 77 | 124 | 0.384 | 30 | |
| Vinyl chloride | | 0.0195 | 0.00528 | 0.0245 | 0 | 79.6 | 58 | 126 | 2.48 | 30 | |
| Total Xylenes | | 0.0575 | 0.00528 | 0.0735 | 0 | 78.3 | 75 | 125 | 0.208 | 30 | |
| Surr: 1,2-Dichloroethane-d4 | | 57.2 | | 52.77 | | 108 | 52 | 149 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | | 52.4 | | 52.77 | | 99.3 | 84 | 118 | 0 | 0 | |
| Surr: Dibromofluoromethane | | 56.2 | | 52.77 | | 107 | 65 | 135 | 0 | 0 | |
| Surr: Toluene-d8 | | 48.5 | | 52.77 | | 92.0 | 84 | 116 | 0 | 0 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_151207A

| Sample ID | ICV-151207 | Batch ID: | R82950 | TestNo: | SW8260C | | Units: | mg/Kg | | | |
|-----------------------------|------------|-----------|---------------|--------------------------------------|---------|------|------------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | GCMS1_151207A | Analysis Date: 12/7/2015 11:15:00 AM | | | Prep Date: | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane | | 0.0498 | 0.00500 | 0.0464 | 0 | 107 | 80 | 120 | | | |
| 1,1,2,2-Tetrachloroethane | | 0.0434 | 0.00500 | 0.0464 | 0 | 93.6 | 80 | 120 | | | |
| 1,1,2-Trichloroethane | | 0.0508 | 0.00500 | 0.0464 | 0 | 109 | 80 | 120 | | | |
| 1,1-Dichloroethane | | 0.0486 | 0.00500 | 0.0464 | 0 | 105 | 80 | 120 | | | |
| 1,1-Dichloroethylene | | 0.0473 | 0.00500 | 0.0464 | 0 | 102 | 80 | 120 | | | |
| 1,2-Dichloroethane | | 0.0489 | 0.00500 | 0.0464 | 0 | 105 | 80 | 120 | | | |
| Benzene | | 0.0491 | 0.00500 | 0.0464 | 0 | 106 | 80 | 120 | | | |
| Carbon tetrachloride | | 0.0520 | 0.00500 | 0.0464 | 0 | 112 | 80 | 120 | | | |
| Chloroform | | 0.0493 | 0.00500 | 0.0464 | 0 | 106 | 80 | 120 | | | |
| Ethylbenzene | | 0.0440 | 0.00500 | 0.0464 | 0 | 94.8 | 80 | 120 | | | |
| Ethylene bromide | | 0.0428 | 0.00500 | 0.0464 | 0 | 92.3 | 80 | 120 | | | |
| Methylene chloride | | 0.0519 | 0.00500 | 0.0464 | 0 | 112 | 80 | 120 | | | |
| Tetrachloroethylene | | 0.0437 | 0.00500 | 0.0464 | 0 | 94.1 | 80 | 120 | | | |
| Toluene | | 0.0504 | 0.00500 | 0.0464 | 0 | 109 | 80 | 120 | | | |
| Trichloroethylene | | 0.0492 | 0.00500 | 0.0464 | 0 | 106 | 80 | 120 | | | |
| Vinyl chloride | | 0.0442 | 0.00500 | 0.0464 | 0 | 95.3 | 80 | 120 | | | |
| Total Xylenes | | 0.135 | 0.00500 | 0.139 | 0 | 97.2 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | | 52.5 | | 50.00 | | 105 | 52 | 149 | | | |
| Surr: 4-Bromofluorobenzene | | 49.5 | | 50.00 | | 99.0 | 84 | 118 | | | |
| Surr: Dibromofluoromethane | | 52.4 | | 50.00 | | 105 | 65 | 135 | | | |
| Surr: Toluene-d8 | | 45.6 | | 50.00 | | 91.1 | 84 | 116 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_151208B

The QC data in batch 72593 applies to the following samples: 1512052-01B, 1512052-02B, 1512052-03B, 1512052-04B, 1512052-05B, 1512052-06B, 1512052-07B, 1512052-08B, 1512052-09B, 1512052-10B, 1512052-11B, 1512052-12B, 1512052-13B, 1512052-14B, 1512052-15B, 1512052-16B

| Sample ID | MB-72593 | Batch ID: | 72593 | TestNo: | E300 | Units: | mg/Kg | | | | |
|-----------|----------|-----------|-------------|-------------------------------------|---------|------------|-----------|-----------|------|----------|------|
| SampType: | MLBK | Run ID: | IC2_151208B | Analysis Date: 12/8/2015 3:51:06 PM | | Prep Date: | 12/7/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | <5.00 | 5.00 | | | | | | | | |
| Fluoride | | <1.00 | 1.00 | | | | | | | | |
| Nitrate-N | | <5.00 | 5.00 | | | | | | | | |
| Sulfate | | <10.0 | 10.0 | | | | | | | | |

| Sample ID | LCS-72593 | Batch ID: | 72593 | TestNo: | E300 | Units: | mg/Kg | | | | |
|-----------|-----------|-----------|-------------|-------------------------------------|---------|------------|-----------|-----------|------|----------|------|
| SampType: | LCS | Run ID: | IC2_151208B | Analysis Date: 12/8/2015 4:20:19 PM | | Prep Date: | 12/7/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 51.0 | 5.00 | 50.00 | 0 | 102 | 80 | 120 | | | |
| Fluoride | | 20.3 | 1.00 | 20.00 | 0 | 101 | 80 | 120 | | | |
| Nitrate-N | | 23.9 | 5.00 | 25.00 | 0 | 95.5 | 80 | 120 | | | |
| Sulfate | | 133 | 10.0 | 150.0 | 0 | 88.6 | 80 | 120 | | | |

| Sample ID | LCSD-72593 | Batch ID: | 72593 | TestNo: | E300 | Units: | mg/Kg | | | | |
|-----------|------------|-----------|-------------|-------------------------------------|---------|------------|-----------|-----------|------|----------|------|
| SampType: | LCSD | Run ID: | IC2_151208B | Analysis Date: 12/8/2015 4:34:55 PM | | Prep Date: | 12/7/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 49.5 | 5.00 | 50.00 | 0 | 98.9 | 80 | 120 | 3.11 | 20 | |
| Fluoride | | 20.0 | 1.00 | 20.00 | 0 | 99.9 | 80 | 120 | 1.42 | 20 | |
| Nitrate-N | | 23.3 | 5.00 | 25.00 | 0 | 93.4 | 80 | 120 | 2.20 | 20 | |
| Sulfate | | 130 | 10.0 | 150.0 | 0 | 86.7 | 80 | 120 | 2.13 | 20 | |

| Sample ID | 1512052-07BMS | Batch ID: | 72593 | TestNo: | E300 | Units: | mg/Kg-dry | | | | |
|-----------|---------------|-----------|-------------|-------------------------------------|---------|------------|-----------|-----------|------|----------|------|
| SampType: | MS | Run ID: | IC2_151208B | Analysis Date: 12/8/2015 6:52:03 PM | | Prep Date: | 12/7/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 212 | 5.13 | 102.6 | 129.9 | 79.6 | 80 | 120 | | | |
| Fluoride | | 101 | 1.03 | 102.6 | 1.719 | 97.2 | 80 | 120 | | | |
| Nitrate-N | | 22.6 | 5.13 | 23.17 | 0 | 97.4 | 80 | 120 | | | |
| Sulfate | | 383 | 10.3 | 102.6 | 323.8 | 57.6 | 80 | 120 | | | S |

| Sample ID | 1512052-07BMSD | Batch ID: | 72593 | TestNo: | E300 | Units: | mg/Kg-dry | | | | |
|-----------|----------------|-----------|-------------|-------------------------------------|---------|------------|-----------|-----------|-------|----------|------|
| SampType: | MSD | Run ID: | IC2_151208B | Analysis Date: 12/8/2015 7:06:40 PM | | Prep Date: | 12/7/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 206 | 5.02 | 100.4 | 129.9 | 75.9 | 80 | 120 | 2.62 | 20 | |
| Fluoride | | 103 | 1.00 | 100.4 | 1.719 | 101 | 80 | 120 | 1.22 | 20 | |
| Nitrate-N | | 22.8 | 5.02 | 22.68 | 0 | 100 | 80 | 120 | 0.862 | 20 | |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_151208B

| Sample ID | 1512052-07BMSD | Batch ID: | 72593 | TestNo: | E300 | Units: | mg/Kg-dry |
|-----------|----------------|-----------|-------------|----------------|-----------------------|------------|-----------|
| SampType: | MSD | Run ID: | IC2_151208B | Analysis Date: | 12/8/2015 7:06:40 PM | Prep Date: | 12/7/2015 |
| <hr/> | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit |
| Sulfate | 362 | 10.0 | 100.4 | 323.8 | 38.4 | 80 | 120 |
| Chloride | 114 | 5.06 | 101.1 | 0 | 113 | 80 | 120 |
| Fluoride | 75.7 | 1.01 | 101.1 | 1.241 | 73.6 | 80 | 120 |
| Nitrate-N | 23.9 | 5.06 | 22.84 | 0 | 105 | 80 | 120 |
| Sulfate | 102 | 10.1 | 101.1 | 0 | 101 | 80 | 120 |
| Sample ID | 1512052-14BMSD | Batch ID: | 72593 | TestNo: | E300 | Units: | mg/Kg-dry |
| SampType: | MSD | Run ID: | IC2_151208B | Analysis Date: | 12/9/2015 11:15:12 AM | Prep Date: | 12/7/2015 |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit |
| Chloride | 109 | 4.83 | 96.59 | 0 | 113 | 80 | 120 |
| Fluoride | 73.8 | 0.966 | 96.59 | 1.241 | 75.1 | 80 | 120 |
| Nitrate-N | 22.9 | 4.83 | 21.81 | 0 | 105 | 80 | 120 |
| Sulfate | 98.1 | 9.66 | 96.59 | 0 | 102 | 80 | 120 |

| | | | | |
|--------------------|----|---|-----|---------------------------------------|
| Qualifiers: | B | Analyte detected in the associated Method Blank | DF | Dilution Factor |
| | J | Analyte detected between MDL and RL | MDL | Method Detection Limit |
| | ND | Not Detected at the Method Detection Limit | R | RPD outside accepted control limits |
| | RL | Reporting Limit | S | Spike Recovery outside control limits |
| | J | Analyte detected between SDL and RL | N | Parameter not NELAC certified |

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_151208B

| Sample ID | ICV-151208 | Batch ID: | R83059 | TestNo: | E300 | Units: | mg/Kg | | | | |
|-----------|---|-----------|-------------|-------------------------------------|---------|------------|----------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | IC2_151208B | Analysis Date: 12/8/2015 3:13:39 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 24.4 | 5.00 | 25.00 | 0 | 97.5 | 90 | 110 | | | |
| Fluoride | | 10.2 | 1.00 | 10.00 | 0 | 102 | 90 | 110 | | | |
| Nitrate-N | | 12.6 | 5.00 | 12.50 | 0 | 101 | 90 | 110 | | | |
| Sulfate | | 71.9 | 10.0 | 75.00 | 0 | 95.9 | 90 | 110 | | | |
| Sample ID | CCV1-151208 | Batch ID: | R83059 | TestNo: | E300 | Units: | mg/Kg | | | | |
| SampType: | CCV <th>Run ID:</th> <td>IC2_151208B</td> <th data-cs="2" data-kind="parent">Analysis Date: 12/9/2015 9:44:13 AM</th> <th data-kind="ghost"></th> <th>Prep Date:</th> <td></td> | Run ID: | IC2_151208B | Analysis Date: 12/9/2015 9:44:13 AM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 10.6 | 5.00 | 10.00 | 0 | 106 | 90 | 110 | | | |
| Fluoride | | 3.71 | 1.00 | 4.000 | 0 | 92.6 | 90 | 110 | | | |
| Nitrate-N | | 4.68 | 5.00 | 5.000 | 0 | 93.7 | 90 | 110 | | | |
| Sulfate | | 27.0 | 10.0 | 30.00 | 0 | 90.1 | 90 | 110 | | | |
| Sample ID | CCV2-151208 | Batch ID: | R83059 | TestNo: | E300 | Units: | mg/Kg | | | | |
| SampType: | CCV <th>Run ID:</th> <td>IC2_151208B</td> <th data-cs="2" data-kind="parent">Analysis Date: 12/9/2015 1:05:35 PM</th> <th data-kind="ghost"></th> <th>Prep Date:</th> <td></td> | Run ID: | IC2_151208B | Analysis Date: 12/9/2015 1:05:35 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 10.4 | 5.00 | 10.00 | 0 | 104 | 90 | 110 | | | |
| Fluoride | | 4.06 | 1.00 | 4.000 | 0 | 102 | 90 | 110 | | | |
| Nitrate-N | | 4.80 | 5.00 | 5.000 | 0 | 95.9 | 90 | 110 | | | |
| Sulfate | | 28.1 | 10.0 | 30.00 | 0 | 93.8 | 90 | 110 | | | |
| Sample ID | CCV3-151208 | Batch ID: | R83059 | TestNo: | E300 | Units: | mg/Kg | | | | |
| SampType: | CCV | Run ID: | IC2_151208B | Analysis Date: 12/9/2015 3:06:34 PM | | Prep Date: | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 10.8 | 5.00 | 10.00 | 0 | 108 | 90 | 110 | | | |
| Fluoride | | 4.10 | 1.00 | 4.000 | 0 | 102 | 90 | 110 | | | |
| Nitrate-N | | 4.92 | 5.00 | 5.000 | 0 | 98.4 | 90 | 110 | | | |
| Sulfate | | 28.5 | 10.0 | 30.00 | 0 | 95.1 | 90 | 110 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_151214A

The QC data in batch 72702 applies to the following samples: 1512052-01C, 1512052-02C, 1512052-03C, 1512052-04C, 1512052-05C, 1512052-06C, 1512052-07C, 1512052-08C, 1512052-09C, 1512052-10C, 1512052-11C, 1512052-12C, 1512052-13C, 1512052-14C, 1512052-15C, 1512052-16C

| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
|----------------------------|---------------|-----------------------|------------|---------|------|----------|-----------|------|----------|------|
| SampType | Run ID | Analysis Date: | Prep Date: | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 254 | 10.0 | 250.0 | 0 | 102 | 90 | 110 | | | N |
| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
| MB-72702 | 72702 | E418.1 | mg/Kg | | | | | | | |
| SampType: | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| MLBK | IR207_151214A | 12/14/2015 10:35:00 A | 12/14/2015 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | <10.0 | 10.0 | | | | | | | | N |
| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
| LCS-72702 | 72702 | E418.1 | mg/Kg | | | | | | | |
| SampType: | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| LCS | IR207_151214A | 12/14/2015 10:35:00 A | 12/14/2015 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 103 | 10.0 | 100.0 | 0 | 103 | 80 | 120 | | | N |
| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
| 1512052-05CMS | 72702 | E418.1 | mg/Kg-dry | | | | | | | |
| SampType: | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| MS | IR207_151214A | 12/14/2015 10:35:00 A | 12/14/2015 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 95.4 | 10.5 | 105.5 | 0 | 90.5 | 80 | 120 | | | N |
| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
| 1512052-05CMSD | 72702 | E418.1 | mg/Kg-dry | | | | | | | |
| SampType: | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| MSD | IR207_151214A | 12/14/2015 10:35:00 A | 12/14/2015 | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 99.8 | 10.5 | 105.3 | 0 | 94.8 | 80 | 120 | 4.48 | 20 | N |
| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
| CCV1-151214 | 72702 | E418.1 | mg/Kg | | | | | | | |
| SampType: | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| CCV | IR207_151214A | 12/14/2015 10:35:00 A | | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 253 | 10.0 | 250.0 | 0 | 101 | 85 | 115 | | | N |
| Sample ID | Batch ID | TestNo: | Units: | | | | | | | |
| CCV2-151214 | 72702 | E418.1 | mg/Kg | | | | | | | |
| SampType: | Run ID: | Analysis Date: | Prep Date: | | | | | | | |
| CCV | IR207_151214A | 12/14/2015 10:35:00 A | | | | | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 254 | 10.0 | 250.0 | 0 | 101 | 85 | 115 | | | N |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PH_151207A

The QC data in batch 72575 applies to the following samples: 1512052-01B, 1512052-02B, 1512052-03B, 1512052-04B, 1512052-05B, 1512052-06B, 1512052-07B, 1512052-08B, 1512052-09B, 1512052-10B, 1512052-11B, 1512052-12B, 1512052-13B, 1512052-14B, 1512052-15B, 1512052-16B

| Sample ID | 1512052-01B-DUP | Batch ID: | 72575 | TestNo: | SW9045D | Units: | pH Units@21.2°C |
|-----------|-----------------|-----------|------------|----------------|-----------------------|------------|---------------------------------------|
| SampType: | DUP | Run ID: | PH_151207A | Analysis Date: | 12/7/2015 10:30:00 AM | Prep Date: | 12/7/2015 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| pH | | 8.20 | 0 | 0 | 8.160 | | 0.489 5 |
| Sample ID | 1512052-11B-DUP | Batch ID: | 72575 | TestNo: | SW9045D | Units: | pH Units@21.1°C |
| SampType: | DUP | Run ID: | PH_151207A | Analysis Date: | 12/7/2015 10:30:00 AM | Prep Date: | 12/7/2015 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| pH | | 7.61 | 0 | 0 | 7.640 | | 0.393 5 |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PH_151207A

| | | | | | | | |
|-----------|-------------|-----------|-----------------|----------------|-----------------------|------------|---------------------------------------|
| Sample ID | SSCV-151207 | Batch ID: | PH_S-12/07/2015 | TestNo: | SW9045D | Units: | pH Units@21.4°C |
| SampType: | ICV | Run ID: | PH_151207A | Analysis Date: | 12/7/2015 10:30:00 AM | Prep Date: | 12/7/2015 |
| <hr/> | | | | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| pH | | 7.02 | 0 | 7.000 | 0 | 100 | 99 101 |
| Sample ID | CCV1-151207 | Batch ID: | PH_S-12/07/2015 | TestNo: | SW9045D | Units: | pH Units@21.3°C |
| SampType: | CCV | Run ID: | PH_151207A | Analysis Date: | 12/7/2015 10:30:00 AM | Prep Date: | 12/7/2015 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| pH | | 7.02 | 0 | 7.000 | 0 | 100 | 97.1 102.9 |
| Sample ID | CCV2-151207 | Batch ID: | PH_S-12/07/2015 | TestNo: | SW9045D | Units: | pH Units@21.2°C |
| SampType: | CCV | Run ID: | PH_151207A | Analysis Date: | 12/7/2015 10:30:00 AM | Prep Date: | 12/7/2015 |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit HighLimit %RPD RPDLimit Qual |
| pH | | 7.02 | 0 | 7.000 | 0 | 100 | 97.1 102.9 |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_151204A

The QC data in batch 72571 applies to the following samples: 1512052-01D, 1512052-02D, 1512052-03D, 1512052-04D

| Sample ID | 1512054-04A-DUP | Batch ID: | 72571 | TestNo: | D2216 | Units: | WT% | | | | |
|------------------|-----------------|-----------|----------------|----------------|----------------------|------------|-----------|-----------|------|----------|------|
| SampType: | DUP | Run ID: | PMOIST_151204A | Analysis Date: | 12/7/2015 8:00:00 AM | Prep Date: | 12/4/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Percent Moisture | | 18.7 | 0 | 0 | 18.02 | | 3.85 | 30 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_151207A

The QC data in batch 72579 applies to the following samples: 1512052-05D, 1512052-06D, 1512052-07D, 1512052-08D, 1512052-09D, 1512052-10D, 1512052-11D, 1512052-12D, 1512052-13D, 1512052-14D, 1512052-15D, 1512052-16D

| Sample ID | 1512052-16D-DUP | Batch ID: | 72579 | TestNo: | D2216 | Units: | WT% | | | | |
|------------------|-----------------|-----------|----------------|----------------|----------------------|------------|-----------|-----------|------|----------|------|
| SampType: | DUP | Run ID: | PMOIST_151207A | Analysis Date: | 12/8/2015 9:32:00 AM | Prep Date: | 12/7/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Percent Moisture | | 13.4 | 0 | 0 | 13.82 | | 3.44 | 30 | | | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_151209A

The QC data in batch 72628 applies to the following samples: 1512052-01B, 1512052-02B, 1512052-03B, 1512052-04B, 1512052-05B, 1512052-06B, 1512052-07B, 1512052-08B, 1512052-09B, 1512052-10B, 1512052-11B, 1512052-12B, 1512052-13B, 1512052-14B, 1512052-15B, 1512052-16B

| Sample ID | MB-72628 | Batch ID: | 72628 | TestNo: | SW9014 | Units: | mg/Kg | | | | |
|----------------|----------------|-----------|------------------|----------------|----------------------|------------|-----------|-----------|------|----------|------|
| SampType: | MLBK | Run ID: | UV/VIS_2_151209A | Analysis Date: | 12/9/2015 5:20:00 PM | Prep Date: | 12/9/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Cyanide, Total | | <0.498 | 0.498 | | | | | | | | |
| Sample ID | LCS-72628 | Batch ID: | 72628 | TestNo: | SW9014 | Units: | mg/Kg | | | | |
| SampType: | LCS | Run ID: | UV/VIS_2_151209A | Analysis Date: | 12/9/2015 5:23:00 PM | Prep Date: | 12/9/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Cyanide, Total | | 4.71 | 0.500 | 5.000 | 0 | 94.2 | 85 | 115 | | | |
| Sample ID | 1512052-01BMS | Batch ID: | 72628 | TestNo: | SW9014 | Units: | mg/Kg-dry | | | | |
| SampType: | MS | Run ID: | UV/VIS_2_151209A | Analysis Date: | 12/9/2015 5:23:00 PM | Prep Date: | 12/9/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Cyanide, Total | | 5.36 | 0.538 | 5.376 | 0 | 99.8 | 75 | 125 | | | |
| Sample ID | 1512052-01BMSD | Batch ID: | 72628 | TestNo: | SW9014 | Units: | mg/Kg-dry | | | | |
| SampType: | MSD | Run ID: | UV/VIS_2_151209A | Analysis Date: | 12/9/2015 5:23:00 PM | Prep Date: | 12/9/2015 | | | | |
| Analyte | | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Cyanide, Total | | 5.25 | 0.540 | 5.402 | 0 | 97.2 | 75 | 125 | 2.17 | 30 | |

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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CLIENT: Larson & Associates
Work Order: 1512052
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_151209A

| Sample ID | ICV-151209 | Batch ID: | R83065 | TestNo: | SW9014 | Units: | mg/Kg | | | |
|----------------|------------|-----------|------------------|----------------|----------------------|------------|-----------|------|----------|------|
| SampType: | ICV | Run ID: | UV/VIS_2_151209A | Analysis Date: | 12/9/2015 5:20:00 PM | Prep Date: | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Cyanide, Total | 0.0937 | 0.500 | 0.1000 | 0 | 93.7 | 85 | 115 | | | |
| Sample ID | CCV-151209 | Batch ID: | R83065 | TestNo: | SW9014 | Units: | mg/Kg | | | |
| SampType: | CCV | Run ID: | UV/VIS_2_151209A | Analysis Date: | 12/9/2015 5:30:00 PM | Prep Date: | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Cyanide, Total | 0.184 | 0.500 | 0.2000 | 0 | 92.2 | 85 | 115 | | | |
| Sample ID | CCV-151209 | Batch ID: | R83065 | TestNo: | SW9014 | Units: | mg/Kg | | | |
| SampType: | CCV | Run ID: | UV/VIS_2_151209A | Analysis Date: | 12/9/2015 5:35:00 PM | Prep Date: | | | | |
| Analyte | Result | RL | SPK value | Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Cyanide, Total | 0.183 | 0.500 | 0.2000 | 0 | 91.5 | 85 | 115 | | | |

Qualifiers: B Analytic detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

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