Cross Border Resources Supray State Tank Battery

Sunray State Tank Battery

Closure Report Section 16, Township 8S, Range 31E Chaves County, New Mexico

February 20, 2018



Prepared for: Red Mountain Resources 14282 Gills Rd. Farmers Branch, TX 75244

By:

Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 102 Hobbs, New Mexico 88240 (505) 397-0510

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I. Company Contacts

| NAME Company | | Telephone | E-mail | | | |
|--------------|-----------------|--------------|-------------------------------|--|--|--|
| Ross | Red Mountain | 817-996-4653 | ross@redmountainresources.com | | | |
| Pearson | Resources, Inc. | | _ | | | |
| Bob Allen | SESI | 505-397-0510 | ballen@sesi-nm.com | | | |

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged to perform delineation services on the Sunray State Battery located in Section 16, Township 8S, Range 31E Chaves County, New Mexico. According to the C-141: a compromised line to the heater treater ruptured, causing a release of crude oil to ground surface. The line was repaired, and the impacted surface area was fenced in. The C-141 was filed with NMOCD on April 24, 2015 and assigned **1RP-3619**.

III. Surface and Ground Water

Research of the *New Mexico Office of the State Engineer* indicates that there is no record of groundwater in the immediate vicinity, but that average depth to water for Township 8S, and Range 31E is 103' BGS.

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX), and 100 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 250 mg/kg (PPM) is also required.

| Depth to Ground Water: | | | | | | | | | | | |
|---|-----------------------|-----------|---|--|--|--|--|--|--|--|--|
| (Vertical distance from contaminants to | Less than 50 feet | 20 points | | | | | | | | | |
| seasonal high water elevation of | 50 feet to 99 feet | 10 points | | | | | | | | | |
| groundwater) | >100 feet | 0 points | X | | | | | | | | |
| Wellhead Protection Area: | | | | | | | | | | | |
| (Less than 200 feet from a private domestic | 20 points | | | | | | | | | | |
| water source; or less than 1000 feet from all | No | 0 points | Х | | | | | | | | |
| other water sources) | | | | | | | | | | | |
| Distance to Surface Water: | | | | | | | | | | | |
| (Horizontal distance to perennial lakes, | Less than 200 feet | 20 points | | | | | | | | | |
| ponds, rivers, streams, creeks, irrigation | 200 feet to 1000 feet | 10 points | | | | | | | | | |
| canals and ditches) | >1000 feet | 0 points | X | | | | | | | | |
| RANKING SCORE (TOTAL POINTS) | | | 0 | | | | | | | | |

V. Work Performed

On June 15, 2016 SESI personnel were on location to address the concerns of ground surface impact. The impacted area was mapped utilizing a handheld Trimble Juno 3D, whereby it was determined that the spill area measured approximately 28,704 sq. ft. The site was flagged in order to activate a line locate request with the New Mexico One Center, in order to conduct a vertical delineation of the impacted area.

On June 29, 2016 SESI personnel revisited the site in order to determine the vertical extent of impact and map sample point positions. Four (4) Soil Bores were advanced from depths of 1' BGS at BH-4 to 27' BGS at BH-3, respectively. Representative soil samples were retrieved at various depth below ground surface, properly packaged, preserved, transported to Cardinal Labs of Hobbs, NM by Chain of Custody and analyzed for Chloride (Cl⁻) (Method SM 4500Cl-B). The results are presented in the table below:

| | Soil Sample Results: Field Tests 06-29-16 | | | | | | | | | | |
|--------------|---|-------------------------|--------------------------|--|--|--|--|--|--|--|--|
| SAMPLE ID | Sample Date | Field Test CHLORIDES | Lab Results CHLORIDES | | | | | | | | |
| BH-1 Surface | 6/29/16 | 1030 ppm | | | | | | | | | |
| BH-1 @ 1' | 6/29/16 | 1030 ppm | | | | | | | | | |
| BH-1 @ 2' | 6/29/16 | 1040 ppm | | | | | | | | | |
| BH-1 @ 3' | 6/29/16 | 1045 ppm | | | | | | | | | |
| BH-1 @ 4' | 6/29/16 | | 32.0 | | | | | | | | |
| BH-2 @ 4' | 6/29/16 | <124 ppm | | | | | | | | | |
| BH-3 @ 4' | 07/01/16 | | 32.0 | | | | | | | | |
| BH-3 @ 7' | 6/29/16 | | 976 | | | | | | | | |
| BH-3 @ 8' | 07/01/16 | 4484 ppm | | | | | | | | | |
| BH-3 @ 11' | 6/29/16 | 4884 ppm | | | | | | | | | |
| BH-3 @ 12' | 7/01/16 | | 2440 | | | | | | | | |
| BH-3 @ 13' | 6/29/16 | 3164 ppm | | | | | | | | | |
| BH-3 @ 16' | 7/01/16 | 1012 ppm | | | | | | | | | |
| BH-3 @ 17' | 6/29/16 | 1528 ppm | | | | | | | | | |
| BH-3 @ 20' | 7/01/16 | | 976 | | | | | | | | |
| BH-3 @ 24' | 07/01/16 | 360 ppm | | | | | | | | | |
| BH-3 @ 27' | 07/01/16 | | 192 | | | | | | | | |
| BH-4 Surface | 6/29/16 | <124 | | | | | | | | | |
| | ł | <u>~124</u> | 16.0 | | | | | | | | |
| BH-4 @ 1' | 6/29/16 | | 16.0 | | | | | | | | |

Between October 13, 2016 and October 24, 2016, Gandy removed the hard pan hydrocarbon from the site and transported the material to an NMOCD approved facility.

Between November 7, 2017 and November 8, 2017, SESI personnel was onsite with Gandy Corporation backhoe operator at the Sunray State 2 Battery to begin remediation. The excavation was twelve by twelve square feet and soil samples were obtained and field test on all four walls. Soil samples were obtained and field tested on all four walls, and two areas from the bottom of the excavation. A liner was installed and loaded with backfill material. The excavation and sample points were mapped and photos were taken of the excavation and the installed liner. All soil samples were properly preserved.

On December 11, 2017, SESI personnel was onsite at the CBR Sunray Battery to till and reseed the affected area. SESI personnel walked the whole area of the site and hand spread the seed. Before and after photos of the area were taken.

VI. Request for Closure

The results of the confirmation sampling indicate that all soils impacted above 250ppm Chlorides were removed and transported to an approved NMOCD facility for disposal. The area was backfilled with clean soil and returned to grade. The area has also been reseeded with BLM #2-LPC seed mixture, and SESI commits to a second application being applied in spring 2018. Cross Border Resources respectfully submits this closure report for your consideration, and requests that no further action be required.

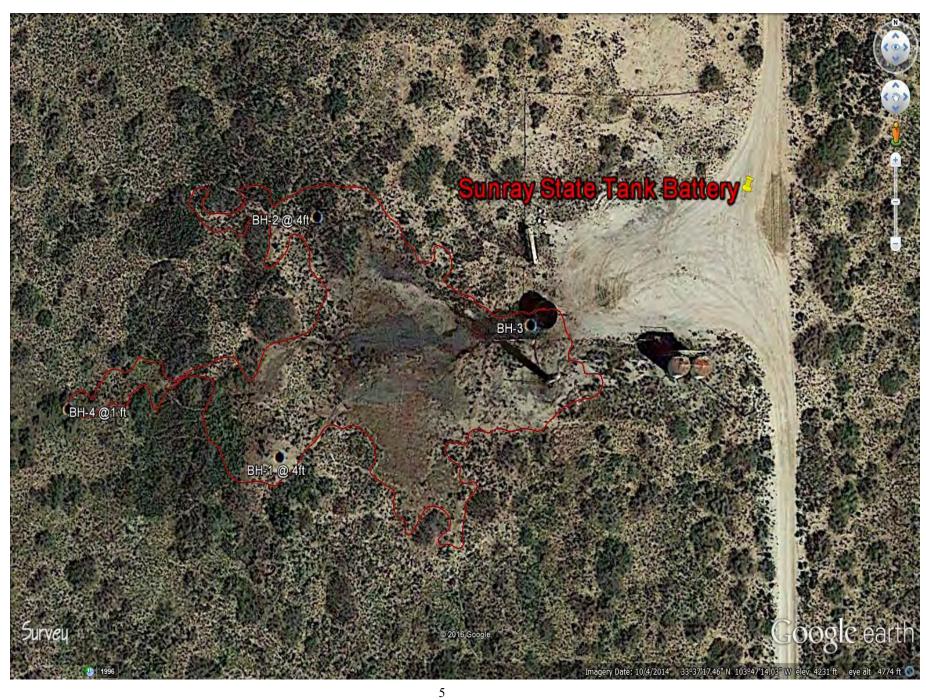
VII. Figures & Appendices

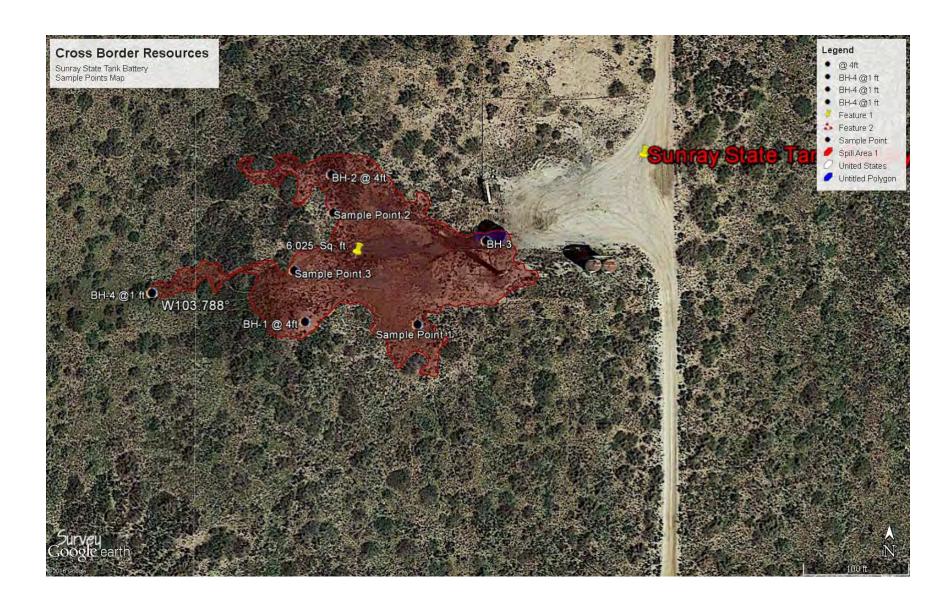
Figure 1 – Vicinity Map
Figure 2– Site Plan
Appendix A – Analytical Results
Appendix B – Site Photos
Appendix C – C-141

Figure 1 Vicinity Map



Figure 2 Site Plan





Appendix A Analytical Results



March 28, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CBR-16-001

Enclosed are the results of analyses for samples received by the laboratory on 03/24/17 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 03/24/2017

Sampling Date: 03/20/2017
Sampling Type: Soil

Reported: 03/28/2017
Project Name: CBR-16-001
Project Number: NONE GIVEN

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: AH -1 1' (H700779-01)

| Chloride, SM4500CI-B | mg | mg/kg | | d By: HM | | | | | |
|----------------------------|----------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 03/27/2017 | ND | 448 | 112 | 400 | 0.00 | |
| Sample ID: AH -1 1.5' (H70 | 0779-02) | | | | | | | | |

| Chloride, SM4500CI-B | mg, | kg | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 03/27/2017 | ND | 448 | 112 | 400 | 0.00 | |

Sample ID: AH -2 1' (H700779-03)

| Chloride, SM4500Cl-B | mg/ | 'kg | Analyze | d By: HM | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 03/27/2017 | ND | 448 | 112 | 400 | 0.00 | |

Sample ID: AH -2 2' (H700779-04)

| Chloride, SM4500Cl-B | mg/ | 'kg | Analyze | | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 03/27/2017 | ND | 448 | 112 | 400 | 0.00 | |

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



Safety & Environmental Solutions

Bob Allen

703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 03/24/2017

 03/24/2017
 Sampling Date:
 03/20/2017

 03/28/2017
 Sampling Type:
 Soil

Reported: 03/28/2017
Project Name: CBR-16-001
Project Number: NONE GIVEN

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: AH -3 1' (H700779-05)

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

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 03/27/2017 ND 448 400 0.00 <16.0 16.0 112

Sample ID: AH -3 2' (H700779-06)

Chloride, SM4500Cl-B Analyzed By: HM mg/kg Reporting Limit Analyzed BS True Value QC RPD Qualifier Analyte Result Method Blank % Recovery 16.0 03/27/2017 448 400 0.00 Chloride <16.0 ND 112

Sample ID: AH -3 3' (H700779-07)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 03/27/2017 ND 400 0.00 Chloride <16.0 16.0 448 112

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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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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

| (575) 393-2326 FAX (575) 393-2476 | ANALYSIS REQUEST | 1 |
|--|--|---|
| Company Name: Safety and Environmental Solutions | Diet. | |
| Project Manager: Bob Allen | - 1 | |
| 3 East Clinton, PO Box 1613 | Company: Same | |
| Hobbs | Attn: | |
| 575 397-0510 F | Address: | |
| 0 | City: | |
| | State: Zip: | |
| Project Name: | Phone #: | |
| Project Location: | Fax#: | |
| Sampler Name: | PRESERV. SAMPLING | |
| MP. | | |
| | THER: CID/BASE: DE / COOL THER: TIME | |
|) (G (G) | 0 4 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 |
| AH-1 ITA | 03/20 1030 | + |
| 341-2 2 51 | 08/20 (055 | + |
| | 20 | + |
| 0.50 | 53/10 (215 | + |
| 7 AH 3 3A 4 1 K | 8(2) 12/5 × | + |
| | | H |
| PLEASE NOTE: Uability and Darnages. Cardinal's liability and disent's exclusive remedy for any claim arising whether based in contract or toot, shall be imited to the amount paid by the clerk to expect the application of the property of the property of the application of the property o | contract or tort, shall be finited to the amount paid by the client for the liting and neohed by Candinal within 30 days after completion of the applicable ting and neohed by Candinal within incurred by client, its subsidiaries, | |
| analyses. As dearns incoming were stated reasons or otherwise. analyses, his dearns incoming the stated for incidential or consequential damages, including without trinsport, occurrence in no event shall Cardinal be stable for incidential or consequential damages, including without trinsport, occurrence in no event shall Cardinal be stable for incidential or consequential damages, including without trinsport, occurrence in more very stated reasons or otherwise. Phone Result | t: Yes No | |
| 25 E | Fax Result: REMARKS: | |
| Sampler - UPS - Bus - Other: Delivered By: (Circle One) Cool Intact Cool Intact | 21 | |
| | | |



June 30, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CBR -16 -001

Enclosed are the results of analyses for samples received by the laboratory on 06/21/17 9:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. 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/ga/lab accredited certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001
Project Number: NONE GIVEN

Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|-----------------|-----------------|
| Т -1 1' | H701601-01 | Soil | 20-Jun-17 11:15 | 21-Jun-17 09:31 |
| TT -1 3' | H701601-02 | Soil | 20-Jun-17 11:15 | 21-Jun-17 09:31 |
| TT -1 4' | H701601-03 | Soil | 20-Jun-17 11:20 | 21-Jun-17 09:31 |
| TT -1 9' | H701601-04 | Soil | 20-Jun-17 11:40 | 21-Jun-17 09:31 |
| TT -1 14' | H701601-05 | Soil | 20-Jun-17 12:00 | 21-Jun-17 09:31 |
| TT -2 1' | H701601-06 | Soil | 20-Jun-17 12:20 | 21-Jun-17 09:31 |
| TT -2 3' | H701601-07 | Soil | 20-Jun-17 12:20 | 21-Jun-17 09:31 |
| TT -2 4' | H701601-08 | Soil | 20-Jun-17 12:30 | 21-Jun-17 09:31 |
| TT -2 9' | H701601-09 | Soil | 20-Jun-17 12:50 | 21-Jun-17 09:31 |
| TT -2 14' | H701601-10 | Soil | 20-Jun-17 13:10 | 21-Jun-17 09:31 |
| TT -4 1' | H701601-11 | Soil | 20-Jun-17 13:15 | 21-Jun-17 09:31 |
| TT -4 3' | H701601-12 | Soil | 20-Jun-17 13:15 | 21-Jun-17 09:31 |
| TT -4 4' | H701601-13 | Soil | 20-Jun-17 13:30 | 21-Jun-17 09:31 |
| TT -4 9' | H701601-14 | Soil | 20-Jun-17 13:45 | 21-Jun-17 09:31 |
| TT -4 14' | H701601-15 | Soil | 20-Jun-17 14:00 | 21-Jun-17 09:31 |

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Reported:

30-Jun-17 16:38



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN

Project Manager: Bob Allen

Fax To: (575) 393-4388

TT -1 1' H701601-01 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|------------|------|--------------------|------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardina | ıl Laborat | ories | | | | | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 72- | 148 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | 20.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 92.1 % | 28.3 | -164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 80.1 % | 34.7 | -157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | 76.7 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -1 3' H701601-02 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|---------------|------|--------------------|------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardina | al Laborat | ories | | | | | |
| Volatile Organic Compounds l | by EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) |) | | 101 % | 72- | 148 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by C | GC FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 91.5 % | 28.3 | -164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 79.9 % | 34.7 | -157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | l . | | | | | | | | | |
| Chloride | 285 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN Project Manager: Bob Allen

Reported: 30-Jun-17 16:38

Fax To: (575) 393-4388

TT -1 4' H701601-03 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|------------|------|--------------------|------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardin | al Laborat | ories | | | | | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 72-1 | 148 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 91.5 % | 28.3- | 164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 79.9 % | 34.7- | 157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | 113 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -1 9' H701601-04 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|------------|------|--------------------|------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardina | al Laborat | ories | | | | | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 99.6 % | 72- | 148 | 7062201 | MS | 22-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by GC | C FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 93.7 % | 28.3 | -164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 79.1 % | 34.7 | -157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | 26.7 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 30-Jun-17 | EPA300.0 | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -1 14' H701601-05 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|------------|------|--------------------|------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardina | al Laborat | ories | | | | | |
| Volatile Organic Compounds by 1 | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 23-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 23-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 23-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062201 | MS | 23-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062201 | MS | 23-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 99.9 % | 72- | 148 | 7062201 | MS | 23-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 93.9 % | 28.3- | .164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 77.5 % | 34.7- | -157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | - |
| Chloride | 27.0 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 30-Jun-17 | EPA300.0 | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -2 1' H701601-06 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|--------------|------|--------------------|------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardina | al Laborat | ories | | | | | |
| Volatile Organic Compounds by | y EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 23-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 23-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062201 | MS | 23-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062201 | MS | 23-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062201 | MS | 23-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 100 % | 72-1 | 148 | 7062201 | MS | 23-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by GO | C FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 95.5 % | 28.3- | -164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 81.5 % | 34.7- | -157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | 10.2 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -2 3' H701601-07 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|------------|------|--------------------|------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardin | al Laborat | ories | | | | | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 99.5 % | 72-1 | 148 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by GO | C FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | 16.7 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 90.8 % | 28.3- | 164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 83.3 % | 34.7- | 157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | 12.0 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -2 4'

H701601-08 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|--------------|------|--------------------|-------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardin | al Laborat | ories | | | | | |
| Volatile Organic Compounds b | y EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 72-1 | 48 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by G | C FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 90.6 % | 28.3- | 164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 79.2 % | 34.7- | 157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Labo | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | 174 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -2 9' H701601-09 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|---------------|------|--------------------|------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardina | al Laborat | ories | | | | | |
| Volatile Organic Compounds l | by EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) |) | | 99.7 % | 72- | 148 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by C | GC FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 90.6 % | 28.3 | -164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 78.0 % | 34.7 | -157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) |) | | | | | | | | | |
| Chloride | 82.3 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -2 14' H701601-10 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|------------|------|--------------------|-------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardina | ıl Laborat | ories | | | | | |
| Volatile Organic Compounds by I | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 100 % | 72-1 | 148 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 98.0 % | 28.3- | 164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 79.9 % | 34.7- | 157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Labo | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | 27.8 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 30-Jun-17 | EPA300.0 | |

Cardinal Laboratories *=Accredited Analyte

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -4 1'

H701601-11 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|------------|------|--------------------|------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardin | al Laborat | ories | | | | | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 99.9 % | 72- | 148 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 90.5 % | 28.3- | -164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 79.0 % | 34.7- | -157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | <10.0 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 29-Jun-17 | EPA300.0 | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -4 3'

H701601-12 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|------------|------|--------------------|------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardina | al Laborat | ories | | | | | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 99.3 % | 72-1 | 148 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by GC | C FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 92.6 % | 28.3- | 164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 82.4 % | 34.7- | 157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | 16.6 | | 10.0 | mg/kg wet | 10 | B706234 | JDA | 30-Jun-17 | EPA300.0 | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN

Project Manager: Bob Allen

Reported: 30-Jun-17 16:38

Fax To: (575) 393-4388

TT -4 4' H701601-13 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|------------|------|--------------------|------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardin | al Laborat | ories | | | | | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 100 % | 72-1 | 148 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by GC | C FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 95.8 % | 28.3- | 164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 80.5 % | 34.7- | -157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | <10.0 | | 10.0 | mg/kg wet | 10 | B706232 | JDA | 29-Jun-17 | EPA300.0 | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN
Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -4 9'

H701601-14 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|--------------|------|--------------------|------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardin | al Laborat | ories | | | | | |
| Volatile Organic Compounds by | y EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 99.6 % | 72- | 148 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by Go | C FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| DRO >C10-C28 | <10.0 | | 10.0 | mg/kg | 1 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 88.5 % | 28.3- | -164 | 7062104 | MS | 22-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 76.1 % | 34.7- | -157 | 7062104 | MS | 22-Jun-17 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | 78.6 | | 10.0 | mg/kg wet | 10 | B706232 | JDA | 29-Jun-17 | EPA300.0 | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

TT -4 14'

H701601-15 (Soil)

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------------------------------------|------------|------|--------------------|------------|-----------|---------|---------|-----------|----------|-------|
| | | | Cardina | l Laborat | ories | | | | | |
| Volatile Organic Compounds by | EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 101 % | 72-1 | 148 | 7062202 | MS | 23-Jun-17 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10 | <10.0 | | 10.0 | mg/kg | 1 | 7062105 | MS | 21-Jun-17 | 8015B | |
| DRO >C10-C28 | <10.0 | | 10.0 | mg/kg | 1 | 7062105 | MS | 21-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 91.6 % | 28.3- | -164 | 7062105 | MS | 21-Jun-17 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 95.3 % | 34.7- | -157 | 7062105 | MS | 21-Jun-17 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | <100 | | 100 | mg/kg wet | 100 | B706232 | JDA | 29-Jun-17 | EPA300.0 | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN

Project Manager: Bob Allen Fax To: (575) 393-4388 Reported: 30-Jun-17 16:38

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------------------------------------|--------|-----------|-------|-------------|-------------|------------|----------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7062201 - Volatiles | | | | | | | | | | |
| Blank (7062201-BLK1) | | | | Prepared & | Analyzed: | 22-Jun-17 | | | | |
| Benzene | ND | 0.050 | mg/kg | | | | | | | |
| Toluene | ND | 0.050 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/kg | | | | | | | |
| Total Xylenes | ND | 0.150 | mg/kg | | | | | | | |
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | ND | | mg/kg | 0.0500 | | 98.6 | 72-148 | | | |
| LCS (7062201-BS1) | | | | Prepared & | Analyzed: | 22-Jun-17 | | | | |
| Benzene | 2.17 | 0.050 | mg/kg | 2.00 | | 109 | 79.5-124 | | | |
| Toluene | 2.00 | 0.050 | mg/kg | 2.00 | | 99.8 | 75.5-127 | | | |
| Ethylbenzene | 2.03 | 0.050 | mg/kg | 2.00 | | 101 | 77.7-125 | | | |
| Total Xylenes | 5.87 | 0.150 | mg/kg | 6.00 | | 97.9 | 70.9-124 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0495 | | mg/kg | 0.0500 | | 98.9 | 72-148 | | | |
| LCS Dup (7062201-BSD1) | | | | Prepared & | Analyzed: | 22-Jun-17 | | | | |
| Benzene | 2.20 | 0.050 | mg/kg | 2.00 | | 110 | 79.5-124 | 1.21 | 6.5 | |
| Toluene | 2.03 | 0.050 | mg/kg | 2.00 | | 101 | 75.5-127 | 1.55 | 7.02 | |
| Ethylbenzene | 2.09 | 0.050 | mg/kg | 2.00 | | 105 | 77.7-125 | 3.17 | 7.83 | |
| Total Xylenes | 6.06 | 0.150 | mg/kg | 6.00 | | 101 | 70.9-124 | 3.22 | 7.78 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0498 | | mg/kg | 0.0500 | | 99.6 | 72-148 | | | |
| Batch 7062202 - Volatiles | | | | | | | | | | |
| Blank (7062202-BLK1) | | | | Prepared: 2 | 22-Jun-17 A | nalyzed: 2 | 3-Jun-17 | | | |
| Benzene | ND | 0.050 | mg/kg | | | | | | | |
| Toluene | ND | 0.050 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/kg | | | | | | | |
| Total Xylenes | ND | 0.150 | mg/kg | | | | | | | |
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0504 | | mg/kg | 0.0500 | | 101 | 72-148 | | | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN

Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|---------------------------------------|--------|-----------|-------|-------------|-------------|------------|----------|-------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch 7062202 - Volatiles | | | | | | | | | | |
| LCS (7062202-BS1) | | | | Prepared: 2 | 22-Jun-17 A | nalyzed: 2 | 3-Jun-17 | | | |
| Benzene | 2.17 | 0.050 | mg/kg | 2.00 | | 109 | 79.5-124 | | | |
| Toluene | 1.99 | 0.050 | mg/kg | 2.00 | | 99.6 | 75.5-127 | | | |
| Ethylbenzene | 2.04 | 0.050 | mg/kg | 2.00 | | 102 | 77.7-125 | | | |
| Total Xylenes | 5.88 | 0.150 | mg/kg | 6.00 | | 98.0 | 70.9-124 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0515 | | mg/kg | 0.0500 | | 103 | 72-148 | | | |
| LCS Dup (7062202-BSD1) | | | | Prepared: 2 | 2-Jun-17 A | nalyzed: 2 | 3-Jun-17 | | | |
| Benzene | 2.17 | 0.050 | mg/kg | 2.00 | | 108 | 79.5-124 | 0.261 | 6.5 | |
| Toluene | 1.98 | 0.050 | mg/kg | 2.00 | | 98.8 | 75.5-127 | 0.837 | 7.02 | |
| Ethylbenzene | 2.03 | 0.050 | mg/kg | 2.00 | | 101 | 77.7-125 | 0.580 | 7.83 | |
| Total Xylenes | 5.85 | 0.150 | mg/kg | 6.00 | | 97.5 | 70.9-124 | 0.547 | 7.78 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0507 | | mg/kg | 0.0500 | | 101 | 72-148 | | | |

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Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN

Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

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

| Ratch | 7062104 - | General Prep | - Organics |
|-------|-----------|---------------|------------|
| Daten | /002104 - | Creneral Fred | - Organics |

| Blank (7062104-BLK1) | | | | Prepared & Anal | lyzed: 21-Jun-17 | | | | |
|-------------------------------|------|------|-------|-----------------|------------------|----------|------|------|--|
| GRO C6-C10 | ND | 10.0 | mg/kg | | | | | | |
| DRO >C10-C28 | ND | 10.0 | mg/kg | | | | | | |
| EXT DRO >C28-C35 | ND | 10.0 | mg/kg | | | | | | |
| EXT DRO >C28-C36 | ND | 10.0 | mg/kg | | | | | | |
| Total TPH C6-C28 | ND | 10.0 | mg/kg | | | | | | |
| Surrogate: 1-Chlorooctane | 45.2 | | mg/kg | 50.0 | 90.4 | 28.3-164 | | | |
| Surrogate: 1-Chlorooctadecane | 40.0 | | mg/kg | 50.0 | 80.1 | 34.7-157 | | | |
| LCS (7062104-BS1) | | | | Prepared & Anal | lyzed: 21-Jun-17 | | | | |
| GRO C6-C10 | 177 | 10.0 | mg/kg | 200 | 88.6 | 76.6-119 | | | |
| DRO >C10-C28 | 182 | 10.0 | mg/kg | 200 | 90.9 | 81.4-124 | | | |
| Total TPH C6-C28 | 359 | 10.0 | mg/kg | 400 | 89.8 | 79.4-121 | | | |
| Surrogate: 1-Chlorooctane | 48.8 | | mg/kg | 50.0 | 97.6 | 28.3-164 | | | |
| Surrogate: 1-Chlorooctadecane | 43.6 | | mg/kg | 50.0 | 87.1 | 34.7-157 | | | |
| LCS Dup (7062104-BSD1) | | | | Prepared & Anal | lyzed: 21-Jun-17 | | | | |
| GRO C6-C10 | 183 | 10.0 | mg/kg | 200 | 91.4 | 76.6-119 | 3.03 | 7.94 | |
| DRO >C10-C28 | 186 | 10.0 | mg/kg | 200 | 92.9 | 81.4-124 | 2.24 | 9.83 | |
| Total TPH C6-C28 | 369 | 10.0 | mg/kg | 400 | 92.1 | 79.4-121 | 2.63 | 8.57 | |
| Surrogate: 1-Chlorooctane | 50.7 | | mg/kg | 50.0 | 101 | 28.3-164 | | | |
| Surrogate: 1-Chlorooctadecane | 42.0 | | mg/kg | 50.0 | 84.0 | 34.7-157 | | | |

Batch 7062105 - General Prep - Organics

| Blank (7062105-BLK1) | Prepared & Analyzed: 21-Jun-17 | | | | | | | |
|-------------------------------|--------------------------------|------|-------|------|------|----------|--|--|
| GRO C6-C10 | ND | 10.0 | mg/kg | | | | | |
| DRO >C10-C28 | ND | 10.0 | mg/kg | | | | | |
| EXT DRO >C28-C35 | ND | 10.0 | mg/kg | | | | | |
| EXT DRO >C28-C36 | ND | 10.0 | mg/kg | | | | | |
| Total TPH C6-C28 | ND | 10.0 | mg/kg | | | | | |
| Surrogate: 1-Chlorooctane | 45.9 | | mg/kg | 50.0 | 91.8 | 28.3-164 | | |
| Surrogate: 1-Chlorooctadecane | 48.1 | | mg/kg | 50.0 | 96.1 | 34.7-157 | | |

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%REC

Limits

RPD



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240

Surrogate: 1-Chlorooctadecane

Analyte

Project: CBR -16 -001

Project Number: NONE GIVEN

Project Manager: Bob Allen Fax To: (575) 393-4388 Reported: 30-Jun-17 16:38

RPD

Limit

Notes

Spike

Level

50.0

Source

Result

%REC

98.9

34.7-157

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

49.4

| LCS (7062105-BS1) | | Prepared & Analyzed: 21-Jun-17 | | | | | | | |
|-------------------------------|--------------------------------|--------------------------------|-------|------|-----|----------|------|------|--|
| GRO C6-C10 | 212 | 10.0 | mg/kg | 200 | 106 | 76.6-119 | | | |
| DRO >C10-C28 | 225 | 10.0 | mg/kg | 200 | 112 | 81.4-124 | | | |
| Total TPH C6-C28 | 437 | 10.0 | mg/kg | 400 | 109 | 79.4-121 | | | |
| Surrogate: 1-Chlorooctane | 50.7 | | mg/kg | 50.0 | 101 | 28.3-164 | | | |
| Surrogate: 1-Chlorooctadecane | 50.0 | | mg/kg | 50.0 | 100 | 34.7-157 | | | |
| LCS Dup (7062105-BSD1) | Prepared & Analyzed: 21-Jun-17 | | | | | | | | |
| GRO C6-C10 | 215 | 10.0 | mg/kg | 200 | 107 | 76.6-119 | 1.15 | 7.94 | |
| DRO >C10-C28 | 229 | 10.0 | mg/kg | 200 | 114 | 81.4-124 | 1.83 | 9.83 | |
| Total TPH C6-C28 | 444 | 10.0 | mg/kg | 400 | 111 | 79.4-121 | 1.50 | 8.57 | |
| Surrogate: 1-Chlorooctane | 52.0 | | mg/kg | 50.0 | 104 | 28.3-164 | | | |

mg/kg

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine



Analytical Results For:

Safety & Environmental Solutions

703 East Clinton Hobbs NM, 88240 Project: CBR -16 -001

Project Number: NONE GIVEN Project Manager: Bob Allen

Fax To: (575) 393-4388

Reported: 30-Jun-17 16:38

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

| | | Reporting | | Spike | Source | 0/859 | %REC | 222 | RPD | | |
|---|---|-----------|---|-------------|-------------|-------------|----------|-------|-------|-------|--|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes | |
| Batch B706232 - General Prep - Wet Chem | | | | | | | | | | | |
| Blank (B706232-BLK1) | Prepared: 27-Jun-17 Analyzed: 28-Jun-17 | | | | | | | | | | |
| Chloride | ND | 10.0 | mg/kg wet | | | | | | | | |
| LCS (B706232-BS1) | | | | Prepared: 2 | 27-Jun-17 A | nalyzed: 28 | 8-Jun-17 | | | | |
| Chloride | 241 | 10.0 | mg/kg wet | 250 | · | 96.3 | 85-115 | | · | · | |
| LCS Dup (B706232-BSD1) | | | Prepared: 27-Jun-17 Analyzed: 28-Jun-17 | | | | | | | | |
| Chloride | 243 | 10.0 | mg/kg wet | 250 | | 97.1 | 85-115 | 0.798 | 20 | | |
| Batch B706234 - General Prep - Wet Chem | | | | | | | | | | | |
| Blank (B706234-BLK1) | Prepared: 27-Jun-17 Analyzed: 29-Jun-17 | | | | | | | | | | |
| Chloride | ND | 10.0 | mg/kg wet | | | | | | | | |
| LCS (B706234-BS1) | Prepared: 27-Jun-17 Analyzed: 29-Jun-17 | | | | | | | | | | |
| Chloride | 239 | 10.0 | mg/kg wet | 250 | | 95.8 | 85-115 | | | | |
| LCS Dup (B706234-BSD1) | Prepared: 27-Jun-17 Analyzed: 29-Jun-17 | | | | | | | | | | |
| Chloride | 240 | 10.0 | mg/kg wet | 250 | | 96.2 | 85-115 | 0.396 | 20 | · | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Relinquished By: Relinquished By: Circle One Delivered By: (Circle One) Sampler - UPS - Bus - Other: | Company Name: Safety and Environmental Solutions Company Name: Safety and Environmental Solutions Project Manager: Bob Allen Project Manager: Bob Allen Address: 703 East Clinton, PO Box 1613 State: NM Zip: 88 City: Hobbs State: NM Zip: 88 Phone #: 575 397-0510 Fax #: 575 393-438 Project Name: Project Name: Project Name: Sampler Name: FOR LAB USE ONLY TO THE ACT OF THE A |
|---|--|
| PLEASE NOTE: Lusting and control and any other cause whatboever is shall be obtained in charge in charge in whole in mitation, business interruptions, bots of use, or boso or part analyses. All claims including which in individual in the consequent and amages, including whole it mitation, business interruptions, bots of use, or boso or part of the above stated reasons or otherwise. Phone Result: Phone Result: Received By: Received By: Relinquished By: Cool Intact Checker By: Sample Condition CHECKER BY: Sample Condition CHECKER BY: Sample Condition CHECKER BY: Remarks: | tal Solutions tal Solutions tal Solutions P.O. #: Company: Same Address: State: Zip: State: Zip: Fax #: Phone #: Fax #: Fax #: Fax #: OMP. Given and dain matterly whether based in content and bit in himsel to the amount paid by the destrict or the state of the sta |
| ult: □ Yes □ No Add'I Phone #: | ANALYSIS REQUEST |

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

| 11 |
|----|
| |

Appendix B Site Photos

Cross Border Resources Sunray State Tank Battery 5-31-2017













































































Cross Border Resources Sunray State Tank Battery























Appendix C C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

| Specific Cause of Problem and Remedial Action Taken.* Surface Cause of Froblem and Remedial Action Taken.* Surface Cause Of Surface Cause | Release Notification | on and Co | rrective A | ction | | | | | | |
|---|---|---------------------------------------|--------------------|--------------------|-------------------|---------------------|--|--|--|--|
| Name of Company Cross Border Resources | | OPERA | OR | ial Report | Final Report | | | | | |
| Facility Name Surray State Battery | Name of Company Cross Border Resources | | | | | | | | | |
| Surface Owner New Mexico State Lands Mineral Owner New Mexico State Lands API No. 30-005-21036 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County | | | | | | | | | | |
| LOCATION OF RELEASE | Facility Name Sunray State Battery | e Tank Battery | | | | | | | | |
| Distribute Section Township Range Feet from the North/South Line Feet from the East/West Line County | Surface Owner New Mexico State Lands Mineral Owner New Mexico State Lands API No. 30-005- | | | | | | | | | |
| Latitude | | | | | | | | | | |
| NATURE OF RELEASE | Unit Letter Section Township Range Feet from the Nor | th/South Line | Feet from the | East/West Line | County | | | | | |
| NATURE OF RELEASE | F 16 8S 31E 1980' Nor | th | 1650' | West | Chaves | | | | | |
| Type of Release Oil Source of Release Coil Source of Release Coil Source of Release Tank Battery, Heater Treater Date and Hour of Coursernee N/A Date and Hour of Coursernee N/A Date and Hour of Discovery 10/17/2014 FYES, To Whom? By Whom? Was a Watercourse Reached? Was a Watercourse Reached? Was a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Rupture in the Heater-Treater Separator to the water tank. Line has been fixed. Spill area has been fenced in. Samples have been taken. Please find attached report from Hall Environmental. Describe Area Affected and Cleanup Action Taken.* A 35' by 70' area has been affected with spilled oil. Plan to till contaminated soil with micro-blaze and water affected area until hydrocarbon levels get down to an acceptable level per NMOCD guidelines. Once soil reaches acceptable hydrocarbon levels, plan to seed the soil with native grasses. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD material Report does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that as "Final Report" does not relieve the operator of liability or compliance with any other Referral, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Title: Chairman Approved Date: Expiration Date: Expiration Date: | | | | | | | | | | |
| Volume of Release Oil Volume of Release Unknown Volume Recovered None Source of Release Tank Battery, Heater Treater Date and Hour of Occurrence N/A Date and Hour of Discovery 10/17/2014 If YES, To Whom? Tyes No Not Required None Not Required Date and Hour of Discovery 10/17/2014 If YES, Volume Impacting the Watercourse. Date and Hour If YES, Volume Impacting the Watercourse. | | | | | | | | | | |
| Source of Release Tank Battery, Heater Treater Date and Hour of Occurrence N/A Date and Hour of Discovery 10/17/2014 Was Immediate Notice Given? Yes No Not Required By Whom? Date and Hour Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* | | | | m Volume | Recovered No | ne | | | | |
| By Whom? Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. If Watercourse was Impacted, Describe Fully. Describe Cause of Problem and Remedial Action Taken. Rupture in the Heater-Treater Separator to the water tank. Line has been fixed. Spill area has been fenced in. Samples have been taken. Please find attached report from Hall Environmental. Describe Area Affected and Cleanup Action Taken. A 35' by 70' area has been affected with spilled oil. Plan to till contaminated soil with micro-blaze and water affected area until hydrocarbon levels get down to an acceptable level per NMOCD guidelines. Once soil reaches acceptable hydrocarbon levels, plan to seed the soil with native grasses. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Alan Barksdale Title: Chairman Approved by Environmental Specialist: Email Address: alan@redmountainresources.com | | | | | | | | | | |
| By Whom? Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. Describe Cause of Problem and Remedial Action Taken.* Rupture in the Heater-Treater Separator to the water tank. Line has been fixed. Spill area has been fenced in. Samples have been taken. Please find attached report from Hall Environmental. Describe Area Affected and Cleanup Action Taken.* A35' by 70' area has been affected with spilled oil. Plan to till contaminated soil with micro-blaze and water affected area until hydrocarbon levels get down to an acceptable level per NMOCD guidelines. Once soil reaches acceptable hydrocarbon levels, plan to seed the soil with native grasses. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Alan Barksdale Approved by Environmental Specialist: Email Address: alan@redmountainresources.com | | | Whom? | - | | | | | | |
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| Signature: OIL CONSERVATION DIVISION | should their operations have failed to adequately investigate and remedi | iate contaminati | on that pose a thr | eat to ground wat | er, surface wate | r, human health | | | | |
| Signature: Printed Name: Alan Barksdale Approved by Environmental Specialist: Title: Chairman Approval Date: Expiration Date: E-mail Address: alan@redmountainresources.com Conditions of Approval: | | t does not reliev | e the operator of | responsibility for | compliance wit | h any other | | | | |
| Signature: Alan Barksdale Printed Name: Alan Barksdale Approved by Environmental Specialist: Title: Chairman Approval Date: Expiration Date: E-mail Address: alan@redmountainresources.com Conditions of Approval: | redefal, state, of local laws and/of regulations. | 1 | OII CON | SERVATION | DIVISION | <u> </u> | | | | |
| Printed Name: Alan Barksdale Approved by Environmental Specialist: Title: Chairman Approval Date: Expiration Date: E-mail Address: alan@redmountainresources.com Conditions of Approval: | | | | | | | | | | |
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| E-mail Address: alan@redmountainresources.com Conditions of Approval: Attached | Title: Chairman | Approval Date: Expiration Date: | | | | | | | | |
| I Attached I I | E-mail Address: alan@redmountainresources.com | Conditions of Approval: | | | Aug-11 | | | | | |
| Date: 4/13/2015 Phone: 214-871-0400 | | | | | | | | | | |

^{*} Attach Additional Sheets If Necessary