Terra Oilfield Services Biliken 6 Federal 1H-Release #2 Closure Report

Section 12, Township 26S, Range 34E Lea County, New Mexico

April 17, 2018



Prepared for:

Terra Oilfield Services 15487 Pin Oak Drive Conroe, TX 77384

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510

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I. Company Contacts

| Representative | Company | Telephone | E-mail |
|----------------|-------------------------|--------------|---------------------------|
| Todd Nilson | Terra Oilfield Services | 618-407-6696 | Todd.nilson@terraofs.com |
| Bob Allen | SESI | 575-397-0510 | <u>ballen@sesi-nm.com</u> |

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Terra Oilfield Services to assess a spill area on the Biliken 6 Federal 1H Release #2, concerning a two hundred fifty (250) bbls. treated water release. This site is situated in Lea County, Section 12, Township 26S, and Range 34E.

According to the C-141: approximately two hundred fifty (250) barrels of treated water was released when a lay flat hose ruptured while transferring treated water from a frac pond to the location. A vacuum truck was dispatched and two hundred thirty (230) bbls. was recovered. A remediation contractor was contacted. This incident references **RP# 4662**.

III. Surface and Ground Water

There is no record of groundwater in the immediate vicinity of the site location. Further research of the New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be 150' bgs. According to the Chevron/Texaco Map, the groundwater is in excess of 140' 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 5,000 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 | | | | | | |
| • | 50 feet to 99 feet | 10 points | | | | | | |
| groundwater) | >100 feet | 0 points | Х | | | | | |
| Wellhead Protection Area: | | | | | | | | |
| (Less than 200 feet from a private domestic | Yes | 20 points | | | | | | |
| water source; or less than 1000 feet from all | No | 0 points | Χ | | | | | |
| 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 | Х | | | | | |
| RANKING SCORE (TOTAL POINTS) | | | | | | | | |
| | | | | | | | | |

V. Work Performed

On March 29, 2017, SESI personnel were onsite to look over the Terra Biliken Release #2 to determine where to install the boreholes using the Geo probe, and to determine vertical extent of contamination. Borehole one was installed to the depth of ten feet, where soil was wet red sand to four feet; five to twelve feet caliche, clay mix, and a lot of moisture. At the four to eight foot boring the plastic core liner crimped up and was easily extracted. The eight to twelve foot boring the plastic liner crimped up inside the core barrel and the liner and soil sample was lost in removing and clearing the core barrel. After clearing the core barrel boring was stopped. Soil sample cores were capped off, labeled and properly preserved. Rigged down and set up to install borehole #2. Borehole two was installed to the depth of refusal at five and half feet. Soil sample cores were capped and properly preserved. The sample points were mapped using the Juno 3B.

| Terra Oilfield Services Biliken 6 Fed 1H Release #2 Soil Sample Results: Cardinal Laboratories 4-6-2017 | | | | | | | | | | |
|---|---------|---------|---------|---------|--------|-----------|-------|------|------|--|
| SAMPLE ID | Benzene | Toluene | Ethyl- | Total | Total | Chlorides | TPH | TPH | EXT | |
| | | | benzene | Xylenes | BTEX | | GRO | DRO | DRO | |
| BH-1 @ 4ft | 0.114 | 0.233 | <0.050 | <0.150 | 0.347 | 11600 | <10.0 | 20.5 | 36.6 | |
| BH-1 @ 8ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 22800 | <10.0 | 14.9 | 18.4 | |
| BH-1 @ 10ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 14600 | <10.0 | 12.0 | 14.4 | |
| BH-2 @ 4ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 6200 | <10.0 | 15.7 | 15.7 | |
| BH-2 @ 5.5ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 20000 | <10.0 | 15.2 | 17.9 | |

On April 5, 2017, SESI personnel were onsite with Custom Welding Backhoe w/operator and spotter at the Terra Biliken Release #2 to install five test trenches to determine vertical extent of contamination. The first test trench was installed to the depth of six feet and soil samples obtained at surface, two, four and six feet and field tested for Chlorides. Vertical was met at four and six feet, with results were less than 124 ppm. The soil characteristics were: surface to two and half feet, red brown sand; two and half to six feet, white solid caliche with one to three inch angular rock. The trench was then backfilled after photos were taken. Test trench two was then installed to the depth of six feet and soil samples obtained at surface, two, four and six feet and field tested for Chlorides. Vertical was met at two, four and six feet, with results less than 124 ppm. The soil characteristics were: surface to four feet, red brown sand; four to six feet, solid white caliche with to six inch rocks. The trench was backfilled after photos were taken. Test trench three was installed to backhoe refusal at twelve feet. Soil samples were obtained at surface, two, four, six, eight, ten and twelve feet and field tested for Chlorides. Vertical was met at ten and twelve feet, where results were 124 and less than 124 ppm. Soil characteristics were: surface to five feet, red brown sand; five to twelve feet, solid white caliche with one to five inch rocks. Trench was backfilled and photos taken. Test trench four was installed to the depth of refusal at twelve feet. Soil samples were obtained at eight, ten and twelve feet and field tested for Chlorides. Vertical was met at ten and twelve feet, with results less than 124 ppm. Soil characteristics were: surface to five feet, red brown sand; five to twelve feet, solid white caliche with one to six inch rocks. Trench was backfilled and photos taken. Test trench five was installed to the depth of refusal at twelve feet. Soil samples were obtained and field tested at eight, ten and twelve feet. Vertical was met at ten and twelve feet, with results 124 and less than 124 ppm. Soil characteristics were: surface to five and half feet, red brown sand; five and half to twelve feet, solid white caliche with one to six inch rocks. Trench was backfilled and photos taken.

All soil samples points, test trench sample points, and pipelines were mapped using the Juno 3B. The samples were properly packaged, preserved and transported to Cardinal Laboratories of Hobbs, NM by chain of custody, and analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), and Chlorides (Method SM4500CI-B). The results are recapped in the following table:

| Terra Oilfield Services Biliken 6 Fed 1H Release #2 Soil Sample Results: Cardinal Laboratories 4-13-2017 | | | | | | | | | | |
|--|---------|---------|---------|---------|--------|-----------|-------|-------|-------|--|
| SAMPLE ID | Benzene | Toluene | Ethyl- | Total | Total | Chlorides | ТРН | ТРН | EXT | |
| | | | benzene | Xylenes | BTEX | | GRO | DRO | DRO | |
| TT-1 @ 4ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 96.0 | <10.0 | <10.0 | <10.0 | |
| TT-1 @ 6ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 112 | <10.0 | <10.0 | <10.0 | |
| TT-2 @ 4ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 32.0 | <10.0 | <10.0 | <10.0 | |
| TT-2 @ 6ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 32.0 | <10.0 | <10.0 | <10.0 | |
| TT-3 @ 6ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 12800 | <10.0 | <10.0 | <10.0 | |
| TT-3 @ 10ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 16.0 | <10.0 | <10.0 | <10.0 | |
| TT-3 @ 12ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 32.0 | <10.0 | <10.0 | <10.0 | |
| TT-4 @ 8ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 4660 | <10.0 | <10.0 | <10.0 | |
| TT-4 @ 10ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 48.0 | <10.0 | <10.0 | <10.0 | |
| TT-4 @ 12ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 96.0 | <10.0 | <10.0 | <10.0 | |
| TT-5 @ 8ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 15800 | <10.0 | <10.0 | <10.0 | |
| TT-5 @ 10ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 96.0 | <10.0 | <10.0 | <10.0 | |
| TT-5 @ 12ft | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | 64.0 | <10.0 | <10.0 | <10.0 | |

On March 19, 2017 SESI personnel was onsite at the Terra Biliken release #2 to obtain surface soil samples in the area where the trench was backfilled. Five soil samples were obtained at one foot depths. The soil sample points were mapped using the Juno 3B.The samples were properly packaged, preserved and transported to Cardinal Laboratories of Hobbs, NM by chain of custody, and analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), and Chlorides (Method SM4500CI-B). The results are recapped in the following table:

| Terra Oilfield Services Release #2 Cardinal Lab Results: 4-25-2017 | | | | | | | | | |
|--|---------|---------|-------------------|------------------|---------------|----------------------|-----------------------|--------------------|-----------|
| SAMPLE ID | Benzene | Toluene | Ethyl- benzene | Total Xylenes | Total BTEX | TPH GRO C6-C10 | TPH DRO C10-C28 | TPH DRO C28-C36 | Chlorides |
| Trench Line SP-1 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 176 |
| Trench Line SP-2 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 448 |
| Trench Line SP-3 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 272 |
| Trench Line SP-4 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 352 |
| Trench Line SP-5 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | 336 |

From February 23, 2018, to February 26, 2018, SESI personnel was onsite with SDR personnel to perform remediation at the Terra Billiken release #2 to begin the remediation. The location was checked to find mark pipelines, and to day light the pipeline before beginning the excavating. The pipeline could not be found with the line finder or by hand digging to the depth of five feet. Marked the area to be excavated was marked with pin flags and excavating began to four feet in depth. Field testing was performed and soil samples were obtained during the excavation. Seven soil samples were obtained: three on the walls and four from the bottom. The wall sample field test results ranged between less than 128 ppm to 180 ppm. Three bottom soil samples test results were Less than 128 ppm and one soil sample were obtained and field tested with results all less than 128 ppm. Two bottom samples were obtained and results were less than 128 ppm and one 1172 ppm, from the far East excavation. All soil samples were properly preserved. Excavation was completed, sample points were mapped, and site photos were taken.

From February 28, 2018, to March 2, 2018, SESI personnel was onsite with SDR personnel to begin loading and hauling the spoils. All trucks were loaded and sent to Sundance for disposal. The excavation was mapped for the liner and SDR picked up the liner. A total of Two hundred twenty yards of spoils was hauled to disposal. The next day, the trucks were again loaded up and sent to Sundance for disposal. A twelve foot long trench was installed in the roadway across the release area to the depth of four foot. Soil samples were obtained in the release area and samples North and South away from the release area at the surface, two and half foot and four foot. All nine samples were field tested for Chlorides, with results less than 128 ppm. Soil samples were properly preserved. The trench was then backfilled for loading purposes. The 20 mil. liner was brought onsite and installed by SESI and SDR personnel, and soil was placed on top to keep it in place. Photos of the installed liner were taken. Two trips each were made to Sundance for disposal for a total of two hundred yards disposed. Total to date is four hundred twenty yards disposed. The next day, six bellies were loaded up and sent to Sundance for disposal and backfilling began as the two end dump trucks begin hauling in backfill. At the end of the day, the six belly dumps completed the hauling of the spoils for a total of two hundred forty yards hauled. Total spoils hauled was six hundred sixty yards on thirty three loads. The 20 yard end dumps made nineteen trips for a total of three hundred eighty yards of backfill to complete the job. Backfilling was completed and photos were taken.

The samples were properly packaged, preserved and transported to Cardinal Laboratories of Hobbs, NM and Hall Environmental Analysis Laboratory of Albuquerque, NM by chain of custody, and analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), and Chlorides (Method 300). The results are recapped in the following table:

| | Terra Oilfield Services Release #2 Results: 3-8-2018 | | | | | | | | | | |
|---------------------|---|---------|-------------------|------------------|---------------|----------------------|-----------------------|--------------------|-----------|--|--|
| SAMPLE ID | Benzene | Toluene | Ethyl- benzene | Total Xylenes | Total BTEX | TPH GRO C6-C10 | TPH DRO C10-C28 | TPH DRO C28-C36 | Chlorides | | |
| SP-1 Bottom 4ft | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-2 North Wall | ND | ND | ND | ND | ND | ND | ND | ND | 160 | | |
| SP-3 Bottom 4ft | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-4 West Wall | ND | ND | ND | ND | ND | ND | ND | ND | 140 | | |
| SP-5 Bottom 4ft | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-6 East Wall | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-7 Bottom 4ft | ND | ND | ND | ND | ND | ND | ND | ND | 2900 | | |
| SP-8 West Wall | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-9 Bottom 4ft | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-10 North Wall | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-11 Bottom 4ft | ND | ND | ND | ND | ND | ND | ND | ND | 1300 | | |
| SP-12 South Wall | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-13 West Wall | ND | ND | ND | ND | ND | ND | ND | ND | 30 | | |
| SP-14 North Wall | ND | ND | ND | ND | ND | ND | ND | ND | 31 | | |
| SP-15 Surface | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-15 2.5ft | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-15 4ft | ND | ND | ND | ND | ND | ND | ND | ND | 47 | | |
| SP-16 Surface North | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-16 2.5ft North | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-16 4ft North | ND | ND | ND | ND | ND | ND | ND | ND | 44.1 | | |
| SP-17 Surface South | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-17 2.5 South | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| SP-17 4ft South | ND | ND | ND | ND | ND | ND | ND | ND | 48.6 | | |

VI. Request for Closure

The results of the confirmation sampling indicate that all soils impacted above 5000 ppm TPH and 1000 ppm Chlorides were removed and transported to an approved NMOCD facility for disposal. The area was backfilled with clean soil and returned to grade. Reseeding according to the appropriate BLM requirements will be completed. Terra Oilfield Services submits this closure report and requests that no further action be required.

The entire horizontal area of the impacted soil was excavated to a depth of 4' with the exception of the area within 34' on each side of of the gas and water line that inwithin the contaminated area. The open ditch ocontaining the Lucid Energy Group lines was impacted by this release, however, surface sampling of the backfilled ditch confirm the soil used to backfill the ditch was not contaminated. A 20 mil liner was installed on the bottom of the excavation. This liner will protect any chloride contamination being left in place from further migration resulting from future fluid releases. Confirmation samples of the sides and bottom of the excavation were taken, with results reported above, to confirm horizontal extent and to document any contamination being left in place on the bottom of the excavation.

The excavation was backfilled with uncontaminated soil and returned to natural grade. Reseeding according to the appropriate BLM requirements will be completed.

VII. Figures & Appendices

Figure 1 - Vicinity Map Figure 2 - Site Plan Appendix A – C-141 Appendix B – Groundwater Appendix C – Analytical Results Appendix D – Photo Documentation

Figure 1 Vicinity Map



 kind regarding this map.

 WGS_1984_Web_Mercator_Auxiliary_Sphere Prepared by: Menoud Map is current as of: 23-Mar-2017

 Miles 0
 0.07

 0
 0.07

 0
 0.14

 0
 0.28

 1: 14,228
 Figure 2 Site Plan





Appendix A C-141

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.

Release Notification and Corrective Action

| | | | OPERATO | DR [| Initial Report | Final Report |
|-------------------------|-------------------------|---------------|-----------------|----------------------|-------------------------|--------------|
| Name of Company: (6137) | Devon Energy Production | on Co LP | Contact: St | tephen Richards, Dev | on Completions F | oreman |
| Address: | PO Box 250 Artesia, NM | 88211 | Telephone No. | 575-252-3717 | | |
| Facility Name: | Billiken 6 Federal 1H | | Facility Type : | Oil Well | | |
| Surface Owner: | Federal | Mineral Owner | : Federal | | API No. 30-025-4 | 2685 |

| LOCATION | OF | RELEASE |
|----------|-----------------------------|---------|
| LUCATION | $\mathbf{O}\mathbf{\Gamma}$ | NELEASE |

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Р | 12 | 26S | 34E | 160 | SOUTH | 210 | EAST | LEA |

Latitude: <u>32.051182 N</u> Longitude: <u>-103.415898 W</u>

NATURE OF RELEASE

| Type of Release: | Volume of Release: 250 BBLS | Volume Recovered: 230 BBLS | | | |
|---|--------------------------------------|---|--|--|--|
| TREATED WATER | | | | | |
| Source of Release | Date and Hour of Occurrence | Date and Hour of Discovery | | | |
| LAY FLAT WATER LINE | 3/21/2017; 4:17 PM | 3/21/2017; 4:17 PM | | | |
| Was Immediate Notice Given? | If YES, To Whom? | | | | |
| 🛛 Yes 🗌 No 🗌 Not Required | BLM: Shelly Tucker | | | | |
| | OCD: Olivia Yu | | | | |
| By Whom? | Date and Hour: | | | | |
| Mike Shoemaker, EHS Professional | BLM: 3/22/17, 12:33 PM | | | | |
| | OCD: 3/22/17, 12:42 | PM | | | |
| Was a Watercourse Reached? | If YES, Volume Impacting the Wate | ercourse. | | | |
| 🗌 Yes 🖾 No | N/A | | | | |
| If a Watercourse was Impacted, Describe Fully.* N/A | | | | | |
| Describe Cause of Problem and Remedial Action Taken.* | | | | | |
| While transferring treated water from a frac pond to the location, the on the ground. The pump was shut down and the hose was repaired. | lay flat hose ruptured. A 2 inch spl | it developed and released treated water | | | |
| Describe Area Affected and Cleanup Action Taken.* | | | | | |

The spill area affected is approximately 200' x 6' running North and South and 195' x 40' running East and West on the pipeline easement following the lease road. A central location of the spill is: Lat – N 32.051182; Long – W -103.415898 and is approximately 1.01 miles South of the Billiken 6 Fed #1. An estimated 250 barrels of treated produced water was spilled, a vacuum truck was dispatched, and 230 barrels was recovered. A remediation contractor will be contacted.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| Signature: | Denise Menoud | <u>OIL CONSER</u> | VATION I | DIVISION |
|-----------------|-----------------------|-----------------------------------|--------------|----------|
| Printed Name: | Denise Menoud | Approved by Environmental Special | ist: | |
| Title: | Field Admin Support | Approval Date: | Expiration D | ate: |
| E-mail Address: | Denise.Menoud@dvn.com | Conditions of Approval: | | Attached |
| Date: 3/23/20 | Phone: 575-746-5544 | | | |

* Attach Additional Sheets If Necessary

Appendix B Groundwater



New Mexico Office of the State Engineer Water Column/Average Depth to Water

| (A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) | (R=POD has been replaced O=orphaned, C=the file is closed) | (quar | | | | | IE 3=SW | , | 3 UTM in meters) | | (In feet |) |
|---|--|--------|-------------|---|----|-------|---------|--------|------------------|--------|----------|-----------------|
| POD Number | POD Sub- Code basin C | county | Q (64 1 | - | | : Tws | Rng | x | Y | - | - | Water Column |
| C 02291 | CUB | LE | 1 1 | 2 | 06 | 26S | 34E | 640825 | 3550140* 🌍 | 220 | 160 | 60 |
| C 02292 POD1 | С | LE | 4 1 | 2 | 06 | 26S | 34E | 640992 | 3549987 🌍 | 200 | 140 | 60 |
| C 03441 POD1 | С | LE | 4 1 | 2 | 06 | 26S | 34E | 640971 | 3550039 🌍 | 250 | | |
| C 03442 POD1 | С | LE | 4 1 | 2 | 06 | 26S | 34E | 641056 | 3550028 🌍 | 251 | | |
| | | | | | | | | | Average Depth to | Water: | 150 f | eet |
| | | | | | | | | | Minimum | Depth: | 140 f | eet |
| | | | | | | | | | Maximum | Depth: | 160 f | eet |
| Record Count: 4 | | | | _ | | | | | | | | |

PLSS Search:

Township: 26S Range: 34E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Appendix C Analytical Results



April 06, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: TER -17-002

Enclosed are the results of analyses for samples received by the laboratory on 03/31/17 14:55.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 03/31/2017 | Sampling Date: | 03/29/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/06/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | Cool & Intact |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: BH -1 4' (H700861-01)

| BTEX 8021B | mg, | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Benzene* | 0.114 | 0.050 | 04/05/2017 | ND | 2.19 | 110 | 2.00 | 0.503 | |
| Toluene* | 0.233 | 0.050 | 04/05/2017 | ND | 2.13 | 107 | 2.00 | 0.718 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/05/2017 | ND | 2.18 | 109 | 2.00 | 0.693 | |
| Total Xylenes* | <0.150 | 0.150 | 04/05/2017 | ND | 6.19 | 103 | 6.00 | 0.676 | |
| Total BTEX | 0.347 | 0.300 | 04/05/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.7 | % 72-148 | } | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 11600 | 16.0 | 04/05/2017 | ND | 432 | 108 | 400 | 3.64 | |
| TPH 8015M | mg/ | /kg | Analyze | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/04/2017 | ND | 203 | 101 | 200 | 1.44 | |
| DRO >C10-C28 | 20.5 | 10.0 | 04/04/2017 | ND | 220 | 110 | 200 | 2.30 | |
| EXT DRO >C28-C36 | 36.6 | 10.0 | 04/04/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 105 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 113 9 | % 34.7-15 | 7 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 03/31/2017 | Sampling Date: | 03/29/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/06/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | Cool & Intact |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: BH -1 8' (H700861-02)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/05/2017 | ND | 2.19 | 110 | 2.00 | 0.503 | |
| Toluene* | <0.050 | 0.050 | 04/05/2017 | ND | 2.13 | 107 | 2.00 | 0.718 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/05/2017 | ND | 2.18 | 109 | 2.00 | 0.693 | |
| Total Xylenes* | <0.150 | 0.150 | 04/05/2017 | ND | 6.19 | 103 | 6.00 | 0.676 | |
| Total BTEX | <0.300 | 0.300 | 04/05/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.1 | % 72-148 | | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 22800 | 16.0 | 04/05/2017 | ND | 432 | 108 | 400 | 3.64 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/04/2017 | ND | 203 | 101 | 200 | 1.44 | |
| DRO >C10-C28 | 14.9 | 10.0 | 04/04/2017 | ND | 220 | 110 | 200 | 2.30 | |
| EXT DRO >C28-C36 | 18.4 | 10.0 | 04/04/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 115 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 117 | % 34.7-15 | 7 | | | | | | |

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 03/31/2017 | Sampling Date: | 03/29/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/06/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | Cool & Intact |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: BH -1 10' (H700861-03)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/05/2017 | ND | 2.19 | 110 | 2.00 | 0.503 | |
| Toluene* | <0.050 | 0.050 | 04/05/2017 | ND | 2.13 | 107 | 2.00 | 0.718 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/05/2017 | ND | 2.18 | 109 | 2.00 | 0.693 | |
| Total Xylenes* | <0.150 | 0.150 | 04/05/2017 | ND | 6.19 | 103 | 6.00 | 0.676 | |
| Total BTEX | <0.300 | 0.300 | 04/05/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.0 | % 72-148 | } | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 14600 | 16.0 | 04/05/2017 | ND | 432 | 108 | 400 | 3.64 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/04/2017 | ND | 203 | 101 | 200 | 1.44 | |
| DRO >C10-C28 | 12.0 | 10.0 | 04/04/2017 | ND | 220 | 110 | 200 | 2.30 | |
| EXT DRO >C28-C36 | 14.4 | 10.0 | 04/04/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 98.4 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 104 | % 34.7-15 | 7 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 03/31/2017 | Sampling Date: | 03/29/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/06/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | Cool & Intact |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: BH -2 4' (H700861-04)

| BTEX 8021B | mg/ | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/05/2017 | ND | 2.19 | 110 | 2.00 | 0.503 | |
| Toluene* | <0.050 | 0.050 | 04/05/2017 | ND | 2.13 | 107 | 2.00 | 0.718 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/05/2017 | ND | 2.18 | 109 | 2.00 | 0.693 | |
| Total Xylenes* | <0.150 | 0.150 | 04/05/2017 | ND | 6.19 | 103 | 6.00 | 0.676 | |
| Total BTEX | <0.300 | 0.300 | 04/05/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.9 | % 72-148 | | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6200 | 16.0 | 04/05/2017 | ND | 432 | 108 | 400 | 3.64 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/04/2017 | ND | 203 | 101 | 200 | 1.44 | |
| DRO >C10-C28 | 15.7 | 10.0 | 04/04/2017 | ND | 220 | 110 | 200 | 2.30 | |
| EXT DRO >C28-C36 | 15.7 | 10.0 | 04/04/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 92.6 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 97.7 | % 34.7-15 | 7 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 03/31/2017 | Sampling Date: | 03/29/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/06/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | Cool & Intact |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: BH -2 5.5' (H700861-05)

| BTEX 8021B | mg, | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/05/2017 | ND | 2.19 | 110 | 2.00 | 0.503 | |
| Toluene* | <0.050 | 0.050 | 04/05/2017 | ND | 2.13 | 107 | 2.00 | 0.718 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/05/2017 | ND | 2.18 | 109 | 2.00 | 0.693 | |
| Total Xylenes* | <0.150 | 0.150 | 04/05/2017 | ND | 6.19 | 103 | 6.00 | 0.676 | |
| Total BTEX | <0.300 | 0.300 | 04/05/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.4 | % 72-148 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 20000 | 16.0 | 04/05/2017 | ND | 432 | 108 | 400 | 3.64 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/04/2017 | ND | 203 | 101 | 200 | 1.44 | |
| DRO >C10-C28 | 15.2 | 10.0 | 04/04/2017 | ND | 220 | 110 | 200 | 2.30 | |
| EXT DRO >C28-C36 | 17.9 | 10.0 | 04/04/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 102 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 108 | % 34.7-15 | 7 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| 575) 393-2326 | | | | | |
|--|---|--|------------------|------------------|---|
| Company Name: Safety and Environmental Solutions | | BILLIO | | ANALTOIS REQUEST | |
| Project Manager: Bob Allen | | P.O. #: | 5 | | |
| Address: 703 East Clinton, PO Box 1613 | | Company: Same | Ţ | | |
| Hobbs State: NM | Zip: 88240 | Attn: | - JX | | |
| 1e #: 575 397-0510 Fax #: 575 | 393-4388 | Address: | £ | | |
| : TER-12-000 | | City: | 15 | | |
| ame: | | State: Zip: | 201 | | |
| Project Location: | | Phone #: | 20 | | |
| Sampler Name: JAD / A ROYCE | | Fax #: | id to | | |
| FOR LAB USE ONLY | MATRIX | PRESERV. SAMPLING | RASIX | | |
| Lab I.D. Sample I.D. | (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE | OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME | Chlo | | |
| 13 4 1 - H2 2 13 4 1 - H2 1 | | | | | |
| 13 01 1H 2) 2 | | 1 1, 154 | | | |
| 13 5.5 C-HO 5 | 61 X | × 3/29 155 | XXXX | | |
| | | | | | |
| Unanages. Cardina's babwiy and caen those for negligence and any other cas ofinal be liable for incidental or consequ out of or related to the performance of | Seemed varied unless made in writing and received by Cardinal within 30 days a writing it margin, brainess interruptions, bos of use, or loss of profits incurred to arctinal, regardless of whether such claim is based upon any of the above stated I Received By: | received by Cardinal within 30 days after completion of the ess of use, or loss of profits incurred by client, its subsidiari based upon any of the above stated reasons or otherwise Phone Res | pplicable It: | Add'I Phone #: | 1 |
| Relinquished By: Date: 3/3/ | Received By: | Fax Result REMARKS: | RKS: | Add'l Fax #: | |
| Relinquished By: Date: 331-12 Time: 453 | Received By: | 9 | | | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | 2.40 Sample Condition | TO- #75 | | | |



April 13, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: TER -17-002

Enclosed are the results of analyses for samples received by the laboratory on 04/06/17 16:55.

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/qa/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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/06/2017 | Sampling Date: | 04/05/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/13/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TT - 1 4' (H700922-01)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Benzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.94 | 97.1 | 2.00 | 1.51 | |
| Toluene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.80 | 89.9 | 2.00 | 1.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.79 | 89.5 | 2.00 | 1.11 | |
| Total Xylenes* | <0.150 | 0.150 | 04/11/2017 | ND | 5.08 | 84.6 | 6.00 | 1.12 | |
| Total BTEX | <0.300 | 0.300 | 04/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.6 | % 72-148 | | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Chloride | 96.0 | 16.0 | 04/10/2017 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| GRO C6-C10 | <10.0 | 10.0 | 04/10/2017 | ND | 207 | 104 | 200 | 4.30 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/10/2017 | ND | 219 | 109 | 200 | 3.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/10/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 82.4 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 82.2 | % 34.7-15 | 7 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/06/2017 | Sampling Date: | 04/05/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/13/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TT - 1 6' (H700922-02)

| BTEX 8021B | mg, | ′kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.94 | 97.1 | 2.00 | 1.51 | |
| Toluene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.80 | 89.9 | 2.00 | 1.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.79 | 89.5 | 2.00 | 1.11 | |
| Total Xylenes* | <0.150 | 0.150 | 04/11/2017 | ND | 5.08 | 84.6 | 6.00 | 1.12 | |
| Total BTEX | <0.300 | 0.300 | 04/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.6 | % 72-148 | } | | | | | | |
| Chloride, SM4500Cl-B | mg, | ′kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 04/10/2017 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/10/2017 | ND | 207 | 104 | 200 | 4.30 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/10/2017 | ND | 219 | 109 | 200 | 3.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/10/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 79.2 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 79.0 | % 34.7-15 | 7 | | | | | | |

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/06/2017 | Sampling Date: | 04/05/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/13/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TT - 2 4' (H700922-03)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.94 | 97.1 | 2.00 | 1.51 | |
| Toluene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.80 | 89.9 | 2.00 | 1.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.79 | 89.5 | 2.00 | 1.11 | |
| Total Xylenes* | <0.150 | 0.150 | 04/11/2017 | ND | 5.08 | 84.6 | 6.00 | 1.12 | |
| Total BTEX | <0.300 | 0.300 | 04/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.9 | % 72-148 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 04/11/2017 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/10/2017 | ND | 207 | 104 | 200 | 4.30 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/10/2017 | ND | 219 | 109 | 200 | 3.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/10/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 94.4 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 96.6 | % 34.7-15 | 7 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/06/2017 | Sampling Date: | 04/05/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/13/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TT - 2 6' (H700922-04)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.94 | 97.1 | 2.00 | 1.51 | |
| Toluene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.80 | 89.9 | 2.00 | 1.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.79 | 89.5 | 2.00 | 1.11 | |
| Total Xylenes* | <0.150 | 0.150 | 04/11/2017 | ND | 5.08 | 84.6 | 6.00 | 1.12 | |
| Total BTEX | <0.300 | 0.300 | 04/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.2 | % 72-148 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 04/11/2017 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/10/2017 | ND | 207 | 104 | 200 | 4.30 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/10/2017 | ND | 219 | 109 | 200 | 3.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/10/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 90.2 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 86.1 | % 34.7-15 | 7 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/06/2017 | Sampling Date: | 04/05/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/13/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TT - 3 10' (H700922-05)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.94 | 97.1 | 2.00 | 1.51 | |
| Toluene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.80 | 89.9 | 2.00 | 1.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.79 | 89.5 | 2.00 | 1.11 | |
| Total Xylenes* | <0.150 | 0.150 | 04/11/2017 | ND | 5.08 | 84.6 | 6.00 | 1.12 | |
| Total BTEX | <0.300 | 0.300 | 04/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 96.0 | % 72-148 | 3 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 04/11/2017 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyze | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/10/2017 | ND | 207 | 104 | 200 | 4.30 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/10/2017 | ND | 219 | 109 | 200 | 3.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/10/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 98.3 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 94.0 | % 34.7-15 | 7 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/06/2017 | Sampling Date: | 04/05/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/13/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TT - 3 12' (H700922-06)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.94 | 97.1 | 2.00 | 1.51 | |
| Toluene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.80 | 89.9 | 2.00 | 1.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.79 | 89.5 | 2.00 | 1.11 | |
| Total Xylenes* | <0.150 | 0.150 | 04/11/2017 | ND | 5.08 | 84.6 | 6.00 | 1.12 | |
| Total BTEX | <0.300 | 0.300 | 04/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.6 | % 72-148 | } | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 04/11/2017 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/10/2017 | ND | 207 | 104 | 200 | 4.30 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/10/2017 | ND | 219 | 109 | 200 | 3.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/10/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 87.3 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 85.5 | % 34.7-15 | 7 | | | | | | |

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/06/2017 | Sampling Date: | 04/05/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/13/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TT - 4 10' (H700922-07)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.94 | 97.1 | 2.00 | 1.51 | |
| Toluene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.80 | 89.9 | 2.00 | 1.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.79 | 89.5 | 2.00 | 1.11 | |
| Total Xylenes* | <0.150 | 0.150 | 04/11/2017 | ND | 5.08 | 84.6 | 6.00 | 1.12 | |
| Total BTEX | <0.300 | 0.300 | 04/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 96.9 | % 72-148 | } | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 04/11/2017 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyze | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/10/2017 | ND | 207 | 104 | 200 | 4.30 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/10/2017 | ND | 219 | 109 | 200 | 3.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/10/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 84.2 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 83.3 | % 34.7-15 | 7 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/06/2017 | Sampling Date: | 04/05/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/13/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TT - 4 12' (H700922-08)

| BTEX 8021B | mg, | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.94 | 97.1 | 2.00 | 1.51 | |
| Toluene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.80 | 89.9 | 2.00 | 1.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.79 | 89.5 | 2.00 | 1.11 | |
| Total Xylenes* | <0.150 | 0.150 | 04/11/2017 | ND | 5.08 | 84.6 | 6.00 | 1.12 | |
| Total BTEX | <0.300 | 0.300 | 04/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 99.0 | % 72-148 | 3 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 04/11/2017 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg/ | /kg | Analyze | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/10/2017 | ND | 207 | 104 | 200 | 4.30 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/10/2017 | ND | 219 | 109 | 200 | 3.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/10/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 87.8 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 85.7 | % 34.7-15 | 7 | | | | | | |

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/06/2017 | Sampling Date: | 04/05/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/13/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TT - 5 10' (H700922-09)

| BTEX 8021B | mg | ′kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.94 | 97.1 | 2.00 | 1.51 | |
| Toluene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.80 | 89.9 | 2.00 | 1.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.79 | 89.5 | 2.00 | 1.11 | |
| Total Xylenes* | <0.150 | 0.150 | 04/11/2017 | ND | 5.08 | 84.6 | 6.00 | 1.12 | |
| Total BTEX | <0.300 | 0.300 | 04/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.8 | % 72-148 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | ′kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 04/11/2017 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg, | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/10/2017 | ND | 207 | 104 | 200 | 4.30 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/10/2017 | ND | 219 | 109 | 200 | 3.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/10/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 92.9 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 95.2 | % 34.7-15 | 7 | | | | | | |

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/06/2017 | Sampling Date: | 04/05/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/13/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TT - 5 12' (H700922-10)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.94 | 97.1 | 2.00 | 1.51 | |
| Toluene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.80 | 89.9 | 2.00 | 1.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.79 | 89.5 | 2.00 | 1.11 | |
| Total Xylenes* | <0.150 | 0.150 | 04/11/2017 | ND | 5.08 | 84.6 | 6.00 | 1.12 | |
| Total BTEX | <0.300 | 0.300 | 04/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.6 | % 72-148 | } | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 04/11/2017 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/10/2017 | ND | 207 | 104 | 200 | 4.30 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/10/2017 | ND | 219 | 109 | 200 | 3.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/10/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 94.1 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 96.8 | % 34.7-15 | 7 | | | | | | |

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/06/2017 | Sampling Date: | 04/05/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/13/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TT - 3 6' (H700922-11)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.94 | 97.1 | 2.00 | 1.51 | |
| Toluene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.80 | 89.9 | 2.00 | 1.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.79 | 89.5 | 2.00 | 1.11 | |
| Total Xylenes* | <0.150 | 0.150 | 04/11/2017 | ND | 5.08 | 84.6 | 6.00 | 1.12 | |
| Total BTEX | <0.300 | 0.300 | 04/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.5 | % 72-148 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 12800 | 16.0 | 04/11/2017 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/10/2017 | ND | 207 | 104 | 200 | 4.30 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/10/2017 | ND | 219 | 109 | 200 | 3.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/10/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 87.4 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 91.0 | % 34.7-15 | 7 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/06/2017 | Sampling Date: | 04/05/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/13/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TT - 4 8' (H700922-12)

| BTEX 8021B | mg, | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.94 | 97.1 | 2.00 | 1.51 | |
| Toluene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.80 | 89.9 | 2.00 | 1.30 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/11/2017 | ND | 1.79 | 89.5 | 2.00 | 1.11 | |
| Total Xylenes* | <0.150 | 0.150 | 04/11/2017 | ND | 5.08 | 84.6 | 6.00 | 1.12 | |
| Total BTEX | <0.300 | 0.300 | 04/11/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.2 | % 72-148 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4660 | 16.0 | 04/11/2017 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/10/2017 | ND | 207 | 104 | 200 | 4.30 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/10/2017 | ND | 219 | 109 | 200 | 3.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/10/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 92.8 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 95.9 | % 34.7-15 | 7 | | | | | | |

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Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/06/2017 | Sampling Date: | 04/05/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/13/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TT - 5 8' (H700922-13)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/10/2017 | ND | 1.64 | 82.2 | 2.00 | 5.42 | |
| Toluene* | <0.050 | 0.050 | 04/10/2017 | ND | 1.72 | 85.9 | 2.00 | 5.58 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/10/2017 | ND | 1.76 | 87.8 | 2.00 | 5.67 | |
| Total Xylenes* | <0.150 | 0.150 | 04/10/2017 | ND | 4.99 | 83.2 | 6.00 | 5.44 | |
| Total BTEX | <0.300 | 0.300 | 04/10/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 97.4 | % 72-148 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 15800 | 16.0 | 04/11/2017 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/10/2017 | ND | 207 | 104 | 200 | 4.30 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/10/2017 | ND | 219 | 109 | 200 | 3.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/10/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 95.5 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 98.9 | % 34.7-15 | 7 | | | | | | |

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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. Keine

Celey D. Keene, Lab Director/Quality Manager

| anayesa. In one event shad carding those for neg service. In no event shad cardinal be failed atflates or successors ensing out of or relia Relinquished By: Relinquished By: Delivered By: (Circole Sampler - UPS - Bus - | 101 E (575) Company Name: S Project Manager: I Address: 703 Ea City: Hobbs Phone #: 575 397 Project Name: Project Location: Sampler Name: FOR LAB USE ONLY FOR LAB USE ONLY |
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| anayes. At carrie including those for medigence and any other carace whatsover shale of central including those for mediates or correspondent damages, including without finitiation, basis of use, or loss of porties interruptions, basis of the portion of the above attemption of the above attemp | ARDORADINA Hobbs, NM 88240 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 (575) 393-2326 FAX (575) 393-2476 101 East Clinton, PO Box 1613 102 East Clinton, PO Box 1613 103 East Clinton, PO Box 1613 103 East Clinton, PO Box 1613 103 East Clinton, PO Box 1613 104 Environmental Solutions ER - 17-0510 Fax #: 575 393-438 175 397-0510 Fax #: 575 393-438 177-2 477 17-2 477 17-2 477 17-2 477 17-2 477 17-2 477 17-2 477 17-2 477 17-2 477 17-2 477 10 Fax #: 575 393-438 17-3 (C FAT 10 Fax #: 575 393-438 10 Fax #: 575 |
| a, including without immands. Loss of use, or loss of profits inco. a, including without immands. International control during the above under by Cardensi, regardless of whether such claim is based upon any of the above the control of the above A received By: A rec | A 88240 3-2476 11al Solutions 11al Solution |
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Page 16 of 17

| Date: Date: Time: Date: Time: | PLEASE NOTE: Lability and Damages. Cardinal's fability and client's exclusive rem analyses. All claims including those for negligence and any other cause whatsoever service. In no event shall Cardinal to Eable for incidential or consequential damages. | 12 I 4 12 557 | Lab I.D. Sample I.D. | Project Manager: Bob Allen Address: 703 East Clinton, PO Box 1613 City: Hobbs State: NM Phone #: 575 397-0510 Fax #: 575 3 Project #: TER ~/ 7.002 Project Owner: Project Name: Project Location: Project Name: | |
|--|--|---------------|---|---|---------------------------------------|
| Inder by Cardinal, regardless of whether such datin is based upon any of the above stated reases in the above stated reases in the above stated reases in the stated reases in the state r | below the stand of the stand shall be finited to the stand shall be stand s | | CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE | 613 Company: Same NM zip: 88240 Attn: 575 393-4388 Address: Owner: City: State: Zip: Phone #: Fax #: | ITIONS BILL TO |
| Isons or observise. | Init paid by the dent for the pysiater completion of the speciatele | | C TPH (B C TPH (B C BYEX | DISEXT) es | CHAIN-OF-CUSTODY AND ANALYSIS REQUEST |



April 25, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: TER -17-002

Enclosed are the results of analyses for samples received by the laboratory on 04/20/17 7:58.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/20/2017 | Sampling Date: | 04/19/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/25/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TRENCH LINE SP-1 (H701039-01)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.94 | 96.8 | 2.00 | 0.897 | |
| Toluene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.85 | 92.7 | 2.00 | 1.13 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.87 | 93.3 | 2.00 | 0.506 | |
| Total Xylenes* | <0.150 | 0.150 | 04/22/2017 | ND | 5.32 | 88.7 | 6.00 | 0.459 | |
| Total BTEX | <0.300 | 0.300 | 04/22/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 99.1 | % 72-148 | } | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 176 | 16.0 | 04/24/2017 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/21/2017 | ND | 188 | 93.9 | 200 | 1.40 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/21/2017 | ND | 195 | 97.4 | 200 | 0.145 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/21/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 73.3 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 72.4 | % 34.7-15 | 7 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/20/2017 | Sampling Date: | 04/19/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/25/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TRENCH LINE SP-2 (H701039-02)

| BTEX 8021B | mg, | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.94 | 96.8 | 2.00 | 0.897 | |
| Toluene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.85 | 92.7 | 2.00 | 1.13 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.87 | 93.3 | 2.00 | 0.506 | |
| Total Xylenes* | <0.150 | 0.150 | 04/22/2017 | ND | 5.32 | 88.7 | 6.00 | 0.459 | |
| Total BTEX | <0.300 | 0.300 | 04/22/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 | % 72-148 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg, | kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 448 | 16.0 | 04/24/2017 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg, | kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/21/2017 | ND | 198 | 98.8 | 200 | 1.91 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/21/2017 | ND | 207 | 104 | 200 | 1.74 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/21/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 98.4 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 94.5 | % 34.7-15 | 7 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/20/2017 | Sampling Date: | 04/19/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/25/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TRENCH LINE SP-3 (H701039-03)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.94 | 96.8 | 2.00 | 0.897 | |
| Toluene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.85 | 92.7 | 2.00 | 1.13 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.87 | 93.3 | 2.00 | 0.506 | |
| Total Xylenes* | <0.150 | 0.150 | 04/22/2017 | ND | 5.32 | 88.7 | 6.00 | 0.459 | |
| Total BTEX | <0.300 | 0.300 | 04/22/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 96.7 9 | % 72-148 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 272 | 16.0 | 04/24/2017 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/21/2017 | ND | 198 | 98.8 | 200 | 1.91 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/21/2017 | ND | 207 | 104 | 200 | 1.74 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/21/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 88.8 9 | 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 85.9 9 | 34.7-15 | 7 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/20/2017 | Sampling Date: | 04/19/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/25/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TRENCH LINE SP-4 (H701039-04)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.94 | 96.8 | 2.00 | 0.897 | |
| Toluene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.85 | 92.7 | 2.00 | 1.13 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.87 | 93.3 | 2.00 | 0.506 | |
| Total Xylenes* | <0.150 | 0.150 | 04/22/2017 | ND | 5.32 | 88.7 | 6.00 | 0.459 | |
| Total BTEX | <0.300 | 0.300 | 04/22/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.1 | % 72-148 | | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 352 | 16.0 | 04/24/2017 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/21/2017 | ND | 198 | 98.8 | 200 | 1.91 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/21/2017 | ND | 207 | 104 | 200 | 1.74 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/21/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 97.2 | % 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 96.1 | % 34.7-15 | 7 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received: | 04/20/2017 | Sampling Date: | 04/19/2017 |
|-------------------|---------------|---------------------|----------------|
| Reported: | 04/25/2017 | Sampling Type: | Soil |
| Project Name: | TER -17-002 | Sampling Condition: | ** (See Notes) |
| Project Number: | TER - 17- 002 | Sample Received By: | Tamara Oldaker |
| Project Location: | NOT GIVEN | | |

Sample ID: TRENCH LINE SP-5 (H701039-05)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.94 | 96.8 | 2.00 | 0.897 | |
| Toluene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.85 | 92.7 | 2.00 | 1.13 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/22/2017 | ND | 1.87 | 93.3 | 2.00 | 0.506 | |
| Total Xylenes* | <0.150 | 0.150 | 04/22/2017 | ND | 5.32 | 88.7 | 6.00 | 0.459 | |
| Total BTEX | <0.300 | 0.300 | 04/22/2017 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.6 | % 72-148 | 2 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 336 | 16.0 | 04/24/2017 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 04/21/2017 | ND | 198 | 98.8 | 200 | 1.91 | |
| DRO >C10-C28 | <10.0 | 10.0 | 04/21/2017 | ND | 207 | 104 | 200 | 1.74 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/21/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 92.9 | 28.3-16 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 87.3 | % 34.7-15 | 7 | | | | | | |

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| PIESE NOTE: Linkeling and Datasyder. And and y offer cause what sover shall be dreamed waived unless made in Natural gam uses of one or loss of profile incurred by dark its subdahates. analyses. Al dairn including how for maked to the performance of several damages, including without imrained, how new informations and use of a cause and use of a cause of whether such daim is based usen any of the above stated measures or dimensions. Relinquished By: Relinquished By: Relinquished By: Circle Offe) Delivered By: (Circle Offe) Cool Integs (Initials) Cool Integs (Initials) | Project #: THC (T + 00 2 Project Owner: City: Project Name: Project I ocation: Fax #: Phone #: Project I ocation: Fax #: Fax #: Sampler Name: Sample I.D. Sample I.D. Fax #: Lab I.D. Sample I.D. GROUNDWATER PRESERV SAMPLING 1 Result H.Linut S. SP-1 GIRAB OR ALERS DATE TIME 2 Result H.Linut S. SP-1 GIRAB OR ALERS DATE TIME 3 Result H.Linut S. SP-1 GIRAB OR ALERS DATE TIME 4 Rout H.Linut S. SP-1 GIRAB OR ALERS DATE TIME 7 Result H.Linut S. SP-1 GIRAB OR ALERS DATE TIME 1 Result H.Linut S. SP-1 GIRAB OR ALERS DATE TIME 2 Result H.Linut S. SP-1 GIRAB OR ALERS DATE TIME 3 GROUNDWATER DATE TIME DATE TIME 4 GROUNDWATER DATE TIME Cool Cool 5 F.3 GIRAB OR ALERS DATE TIME Cool 3 GROUNDWATER DATE TIME Cool Cool 4 GROUNDWATER | Company Name: Safety and Environmental Solutions Project Manager: Bob Allen Address: 703 East Clinton, PO Box 1613 City: Hobbs State: NM Phone #: 575 397-0510 | (575) 393-2326 FAX (575) 393-2476 |
|--|--|--|-----------------------------------|
| π | | sany: Same | 1 118 |
| □ Yes □ No Add'I Phone #: □ Yes □ No Add'I Fax #: | TXXXX TPH (Soudes | | ANALYSIS REQUEST |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

March 08, 2018

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241 TEL: (575) 397-0510 FAX (575) 393-4388

RE: Terra Billiken Release 2

OrderNo.: 1802E52

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 14 sample(s) on 2/28/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-1 Bottom 4Ft Collection Date: 2/23/2018 10:15:00 AM Received Date: 2/28/2018 9:45:00 AM

| Lab ID: 1802E52-001 | Matrix: | SOIL | Received | Received Date: 2/28/2018 9:45:00 AM | | | | |
|--------------------------------|-------------|--------|-----------------|-------------------------------------|----------------------|-------|--|--|
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | | |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | CJS | | |
| Chloride | ND | 30 | mg/Kg | 20 | 3/2/2018 7:29:35 PM | 36801 | | |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS | 6 | | | Analyst | том | | |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 3/5/2018 5:02:11 PM | 36807 | | |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 3/5/2018 5:02:11 PM | 36807 | | |
| Surr: DNOP | 99.8 | 70-130 | %Rec | 1 | 3/5/2018 5:02:11 PM | 36807 | | |
| EPA METHOD 8015D: GASOLINE RAI | NGE | | | | Analyst | NSB | | |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 3/5/2018 10:36:00 AM | 36800 | | |
| Surr: BFB | 90.7 | 15-316 | %Rec | 1 | 3/5/2018 10:36:00 AM | 36800 | | |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | NSB | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.094 | mg/Kg | 1 | 3/5/2018 10:36:00 AM | 36800 | | |
| Benzene | ND | 0.024 | mg/Kg | 1 | 3/5/2018 10:36:00 AM | 36800 | | |
| Toluene | ND | 0.047 | mg/Kg | 1 | 3/5/2018 10:36:00 AM | 36800 | | |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 3/5/2018 10:36:00 AM | 36800 | | |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 3/5/2018 10:36:00 AM | 36800 | | |
| Surr: 4-Bromofluorobenzene | 89.7 | 80-120 | %Rec | 1 | 3/5/2018 10:36:00 AM | 36800 | | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-2 North Wall Collection Date: 2/23/2018 9:00:00 AM Received Date: 2/28/2018 9:45:00 AM

| Lab ID: 1802E52-002 | Matrix: SOIL | | Received | Received Date: 2/28/2018 9:45:00 AM | | | |
|--------------------------------|--------------|--------|-----------------|-------------------------------------|----------------------|-------|--|
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | CJS | |
| Chloride | 160 | 30 | mg/Kg | 20 | 3/2/2018 7:41:59 PM | 36801 | |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS | 6 | | | Analyst | TOM | |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 3/5/2018 6:14:56 PM | 36807 | |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 3/5/2018 6:14:56 PM | 36807 | |
| Surr: DNOP | 103 | 70-130 | %Rec | 1 | 3/5/2018 6:14:56 PM | 36807 | |
| EPA METHOD 8015D: GASOLINE RAI | NGE | | | | Analyst | NSB | |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 3/5/2018 11:46:04 AM | 36800 | |
| Surr: BFB | 88.6 | 15-316 | %Rec | 1 | 3/5/2018 11:46:04 AM | 36800 | |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | NSB | |
| Methyl tert-butyl ether (MTBE) | ND | 0.099 | mg/Kg | 1 | 3/5/2018 11:46:04 AM | 36800 | |
| Benzene | ND | 0.025 | mg/Kg | 1 | 3/5/2018 11:46:04 AM | 36800 | |
| Toluene | ND | 0.049 | mg/Kg | 1 | 3/5/2018 11:46:04 AM | 36800 | |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 3/5/2018 11:46:04 AM | 36800 | |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 3/5/2018 11:46:04 AM | 36800 | |
| Surr: 4-Bromofluorobenzene | 87.9 | 80-120 | %Rec | 1 | 3/5/2018 11:46:04 AM | 36800 | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-3 Bottom 4Ft Collection Date: 2/23/2018 11:00:00 AM Received Date: 2/28/2018 9:45:00 AM

| Lab ID: 1802E52-003 | Matrix: | Matrix: SOIL | | Received Date: 2/28/2018 9:45:00 AM | | | |
|--------------------------------|-------------|--------------|----------|-------------------------------------|----------------------|-------|--|
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA | |
| Chloride | ND | 30 | mg/Kg | 20 | 3/4/2018 10:41:19 AM | 36821 | |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS | 5 | | | Analyst | том | |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 3/5/2018 6:38:59 PM | 36807 | |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 3/5/2018 6:38:59 PM | 36807 | |
| Surr: DNOP | 102 | 70-130 | %Rec | 1 | 3/5/2018 6:38:59 PM | 36807 | |
| EPA METHOD 8015D: GASOLINE RAI | NGE | | | | Analyst | : NSB | |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 3/5/2018 1:19:43 PM | 36800 | |
| Surr: BFB | 93.5 | 15-316 | %Rec | 1 | 3/5/2018 1:19:43 PM | 36800 | |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB | |
| Methyl tert-butyl ether (MTBE) | ND | 0.094 | mg/Kg | 1 | 3/5/2018 1:19:43 PM | 36800 | |
| Benzene | ND | 0.024 | mg/Kg | 1 | 3/5/2018 1:19:43 PM | 36800 | |
| Toluene | ND | 0.047 | mg/Kg | 1 | 3/5/2018 1:19:43 PM | 36800 | |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 3/5/2018 1:19:43 PM | 36800 | |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 3/5/2018 1:19:43 PM | 36800 | |
| Surr: 4-Bromofluorobenzene | 92.5 | 80-120 | %Rec | 1 | 3/5/2018 1:19:43 PM | 36800 | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-4 West Wall Collection Date: 2/23/2018 10:45:00 AM Received Date: 2/28/2018 9:45:00 AM

| Lab ID: 1802E52-004 | Matrix: SOIL | | Received | Received Date: 2/28/2018 9:45:00 AM | | | |
|--------------------------------|--------------|--------|-----------------|--|----------------------|-------|--|
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA | |
| Chloride | 140 | 30 | mg/Kg | 20 | 3/4/2018 11:18:34 AM | 36821 | |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS | ; | | | Analyst | ТОМ | |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 3/5/2018 7:03:12 PM | 36807 | |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 3/5/2018 7:03:12 PM | 36807 | |
| Surr: DNOP | 108 | 70-130 | %Rec | 1 | 3/5/2018 7:03:12 PM | 36807 | |
| EPA METHOD 8015D: GASOLINE RAI | NGE | | | | Analyst | : NSB | |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 3/5/2018 1:43:12 PM | 36800 | |
| Surr: BFB | 91.4 | 15-316 | %Rec | 1 | 3/5/2018 1:43:12 PM | 36800 | |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB | |
| Methyl tert-butyl ether (MTBE) | ND | 0.097 | mg/Kg | 1 | 3/5/2018 1:43:12 PM | 36800 | |
| Benzene | ND | 0.024 | mg/Kg | 1 | 3/5/2018 1:43:12 PM | 36800 | |
| Toluene | ND | 0.049 | mg/Kg | 1 | 3/5/2018 1:43:12 PM | 36800 | |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 3/5/2018 1:43:12 PM | 36800 | |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 3/5/2018 1:43:12 PM | 36800 | |
| Surr: 4-Bromofluorobenzene | 90.7 | 80-120 | %Rec | 1 | 3/5/2018 1:43:12 PM | 36800 | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-5 Bottom 4Ft Collection Date: 2/23/2018 1:15:00 PM Received Date: 2/28/2018 9:45:00 AM

| Lab ID: 1802E52-005 | Matrix: SOIL | | Received | Received Date: 2/28/2018 9:45:00 AM | | | |
|--------------------------------|--------------|--------|-----------------|-------------------------------------|----------------------|-------|--|
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA | |
| Chloride | ND | 30 | mg/Kg | 20 | 3/4/2018 11:30:58 AM | 36821 | |
| EPA METHOD 8015M/D: DIESEL RAN | IGE ORGANICS | 6 | | | Analyst | том | |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 3/5/2018 7:27:12 PM | 36807 | |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 3/5/2018 7:27:12 PM | 36807 | |
| Surr: DNOP | 98.3 | 70-130 | %Rec | 1 | 3/5/2018 7:27:12 PM | 36807 | |
| EPA METHOD 8015D: GASOLINE RA | NGE | | | | Analyst | : NSB | |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 3/5/2018 2:06:33 PM | 36800 | |
| Surr: BFB | 89.5 | 15-316 | %Rec | 1 | 3/5/2018 2:06:33 PM | 36800 | |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB | |
| Methyl tert-butyl ether (MTBE) | ND | 0.094 | mg/Kg | 1 | 3/5/2018 2:06:33 PM | 36800 | |
| Benzene | ND | 0.023 | mg/Kg | 1 | 3/5/2018 2:06:33 PM | 36800 | |
| Toluene | ND | 0.047 | mg/Kg | 1 | 3/5/2018 2:06:33 PM | 36800 | |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 3/5/2018 2:06:33 PM | 36800 | |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 3/5/2018 2:06:33 PM | 36800 | |
| Surr: 4-Bromofluorobenzene | 88.7 | 80-120 | %Rec | 1 | 3/5/2018 2:06:33 PM | 36800 | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-6 East Wall Collection Date: 2/23/2018 1:40:00 PM Received Date: 2/28/2018 9:45:00 AM

| Lab ID: 1802E52-006 | Matrix: SOIL | | Received | Received Date: 2/28/2018 9:45:00 AM | | | |
|--------------------------------|--------------|--------|-----------------|-------------------------------------|----------------------|-------|--|
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA | |
| Chloride | ND | 30 | mg/Kg | 20 | 3/4/2018 11:43:23 AM | 36821 | |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS | 6 | | | Analyst | TOM | |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 3/5/2018 7:51:18 PM | 36807 | |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 3/5/2018 7:51:18 PM | 36807 | |
| Surr: DNOP | 100 | 70-130 | %Rec | 1 | 3/5/2018 7:51:18 PM | 36807 | |
| EPA METHOD 8015D: GASOLINE RAI | NGE | | | | Analyst | : NSB | |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 3/5/2018 2:29:46 PM | 36800 | |
| Surr: BFB | 88.9 | 15-316 | %Rec | 1 | 3/5/2018 2:29:46 PM | 36800 | |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB | |
| Methyl tert-butyl ether (MTBE) | ND | 0.094 | mg/Kg | 1 | 3/5/2018 2:29:46 PM | 36800 | |
| Benzene | ND | 0.023 | mg/Kg | 1 | 3/5/2018 2:29:46 PM | 36800 | |
| Toluene | ND | 0.047 | mg/Kg | 1 | 3/5/2018 2:29:46 PM | 36800 | |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 3/5/2018 2:29:46 PM | 36800 | |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 3/5/2018 2:29:46 PM | 36800 | |
| Surr: 4-Bromofluorobenzene | 87.6 | 80-120 | %Rec | 1 | 3/5/2018 2:29:46 PM | 36800 | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-7 Bottom 4Ft Collection Date: 2/23/2018 2:15:00 PM Received Date: 2/28/2018 9:45:00 AM

| Lab ID: 1802E52-007 | Matrix: SOIL | | Received | Received Date: 2/28/2018 9:45:00 AM | | | |
|--------------------------------|--------------|--------|-----------------|-------------------------------------|---------------------|--------|--|
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | |
| EPA METHOD 300.0: ANIONS | | | | | Analys | t: CJS | |
| Chloride | 2900 | 150 | mg/Kg | 100 | 3/7/2018 1:50:45 PM | 36821 | |
| EPA METHOD 8015M/D: DIESEL RAN | IGE ORGANICS | 6 | | | Analys | t: TOM | |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 3/5/2018 8:15:13 PM | 36807 | |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 3/5/2018 8:15:13 PM | 36807 | |
| Surr: DNOP | 101 | 70-130 | %Rec | 1 | 3/5/2018 8:15:13 PM | 36807 | |
| EPA METHOD 8015D: GASOLINE RA | NGE | | | | Analys | t: NSB | |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 3/5/2018 2:53:16 PM | 36800 | |
| Surr: BFB | 89.9 | 15-316 | %Rec | 1 | 3/5/2018 2:53:16 PM | 36800 | |
| EPA METHOD 8021B: VOLATILES | | | | | Analys | t: NSB | |
| Methyl tert-butyl ether (MTBE) | ND | 0.097 | mg/Kg | 1 | 3/5/2018 2:53:16 PM | 36800 | |
| Benzene | ND | 0.024 | mg/Kg | 1 | 3/5/2018 2:53:16 PM | 36800 | |
| Toluene | ND | 0.049 | mg/Kg | 1 | 3/5/2018 2:53:16 PM | 36800 | |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 3/5/2018 2:53:16 PM | 36800 | |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 3/5/2018 2:53:16 PM | 36800 | |
| Surr: 4-Bromofluorobenzene | 88.8 | 80-120 | %Rec | 1 | 3/5/2018 2:53:16 PM | 36800 | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 7 of 19 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-8 West Wall Collection Date: 2/26/2018 8:00:00 AM Received Date: 2/28/2018 9:45:00 AM

| Lab ID: 1802E52-008 | Matrix: SOIL | | Received | Received Date: 2/28/2018 9:45:00 AM | | | |
|--------------------------------|--------------|--------|-----------------|-------------------------------------|----------------------|-------|--|
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA | |
| Chloride | ND | 30 | mg/Kg | 20 | 3/4/2018 12:33:01 PM | 36821 | |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS | 6 | | | Analyst | ТОМ | |
| Diesel Range Organics (DRO) | ND | 9.1 | mg/Kg | 1 | 3/5/2018 8:39:21 PM | 36807 | |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 3/5/2018 8:39:21 PM | 36807 | |
| Surr: DNOP | 100 | 70-130 | %Rec | 1 | 3/5/2018 8:39:21 PM | 36807 | |
| EPA METHOD 8015D: GASOLINE RAI | NGE | | | | Analyst | : NSB | |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 3/5/2018 3:16:41 PM | 36800 | |
| Surr: BFB | 86.9 | 15-316 | %Rec | 1 | 3/5/2018 3:16:41 PM | 36800 | |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB | |
| Methyl tert-butyl ether (MTBE) | ND | 0.096 | mg/Kg | 1 | 3/5/2018 3:16:41 PM | 36800 | |
| Benzene | ND | 0.024 | mg/Kg | 1 | 3/5/2018 3:16:41 PM | 36800 | |
| Toluene | ND | 0.048 | mg/Kg | 1 | 3/5/2018 3:16:41 PM | 36800 | |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 3/5/2018 3:16:41 PM | 36800 | |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 3/5/2018 3:16:41 PM | 36800 | |
| Surr: 4-Bromofluorobenzene | 85.4 | 80-120 | %Rec | 1 | 3/5/2018 3:16:41 PM | 36800 | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 8 of 19 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-9 Bottom 4Ft Collection Date: 2/26/2018 8:30:00 AM Received Date: 2/28/2018 9:45:00 AM

| Lab ID: 1802E52-009 | Matrix: SOIL | | Received | Received Date: 2/28/2018 9:45:00 AM | | | |
|--------------------------------|--------------|--------|-----------------|-------------------------------------|----------------------|-------|--|
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA | |
| Chloride | ND | 30 | mg/Kg | 20 | 3/4/2018 12:45:26 PM | 36821 | |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS | 6 | | | Analyst | : TOM | |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 3/5/2018 9:03:25 PM | 36807 | |
| Motor Oil Range Organics (MRO) | ND | 51 | mg/Kg | 1 | 3/5/2018 9:03:25 PM | 36807 | |
| Surr: DNOP | 102 | 70-130 | %Rec | 1 | 3/5/2018 9:03:25 PM | 36807 | |
| EPA METHOD 8015D: GASOLINE RAI | NGE | | | | Analyst | : NSB | |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 3/5/2018 3:40:05 PM | 36800 | |
| Surr: BFB | 87.2 | 15-316 | %Rec | 1 | 3/5/2018 3:40:05 PM | 36800 | |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB | |
| Methyl tert-butyl ether (MTBE) | ND | 0.097 | mg/Kg | 1 | 3/5/2018 3:40:05 PM | 36800 | |
| Benzene | ND | 0.024 | mg/Kg | 1 | 3/5/2018 3:40:05 PM | 36800 | |
| Toluene | ND | 0.048 | mg/Kg | 1 | 3/5/2018 3:40:05 PM | 36800 | |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 3/5/2018 3:40:05 PM | 36800 | |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 3/5/2018 3:40:05 PM | 36800 | |
| Surr: 4-Bromofluorobenzene | 86.0 | 80-120 | %Rec | 1 | 3/5/2018 3:40:05 PM | 36800 | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-10 North Wall Collection Date: 2/26/2018 8:45:00 AM Received Date: 2/28/2018 9:45:00 AM

| Lab ID: 1802E52-010 | Matrix: SOIL | | Received | Received Date: 2/28/2018 9:45:00 AM | | | |
|--------------------------------|--------------|--------|-----------------|-------------------------------------|----------------------|-------|--|
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA | |
| Chloride | ND | 30 | mg/Kg | 20 | 3/4/2018 12:57:51 PM | 36821 | |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS | 6 | | | Analyst | ТОМ | |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 3/5/2018 9:27:27 PM | 36807 | |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 3/5/2018 9:27:27 PM | 36807 | |
| Surr: DNOP | 101 | 70-130 | %Rec | 1 | 3/5/2018 9:27:27 PM | 36807 | |
| EPA METHOD 8015D: GASOLINE RAI | NGE | | | | Analyst | : NSB | |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 3/5/2018 7:57:25 PM | 36800 | |
| Surr: BFB | 90.2 | 15-316 | %Rec | 1 | 3/5/2018 7:57:25 PM | 36800 | |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB | |
| Methyl tert-butyl ether (MTBE) | ND | 0.10 | mg/Kg | 1 | 3/5/2018 7:57:25 PM | 36800 | |
| Benzene | ND | 0.025 | mg/Kg | 1 | 3/5/2018 7:57:25 PM | 36800 | |
| Toluene | ND | 0.050 | mg/Kg | 1 | 3/5/2018 7:57:25 PM | 36800 | |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 3/5/2018 7:57:25 PM | 36800 | |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 3/5/2018 7:57:25 PM | 36800 | |
| Surr: 4-Bromofluorobenzene | 88.1 | 80-120 | %Rec | 1 | 3/5/2018 7:57:25 PM | 36800 | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-11 Bottom 4Ft Collection Date: 2/26/2018 10:30:00 AM Received Date: 2/28/2018 9:45:00 AM

| Lab ID: 1802E52-011 | 802E52-011 Matrix: SOIL | | | Received Date: 2/28/2018 9:45:00 AM | | | | | |
|---------------------------------|-------------------------|--------|----------|-------------------------------------|---------------------|--------|--|--|--|
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | | | |
| EPA METHOD 300.0: ANIONS | | | | | Analys | t: CJS | | | |
| Chloride | 1300 | 75 | mg/Kg | 50 | 3/7/2018 2:03:09 PM | 36821 | | | |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS | ; | | | Analys | t: TOM | | | |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 3/5/2018 9:51:26 PM | 36807 | | | |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 3/5/2018 9:51:26 PM | 36807 | | | |
| Surr: DNOP | 101 | 70-130 | %Rec | 1 | 3/5/2018 9:51:26 PM | 36807 | | | |
| EPA METHOD 8015D: GASOLINE RAN | IGE | | | | Analys | t: NSB | | | |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 3/5/2018 8:20:40 PM | 36800 | | | |
| Surr: BFB | 88.4 | 15-316 | %Rec | 1 | 3/5/2018 8:20:40 PM | 36800 | | | |
| EPA METHOD 8021B: VOLATILES | | | | | Analys | t: NSB | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.098 | mg/Kg | 1 | 3/5/2018 8:20:40 PM | 36800 | | | |
| Benzene | ND | 0.025 | mg/Kg | 1 | 3/5/2018 8:20:40 PM | 36800 | | | |
| Toluene | ND | 0.049 | mg/Kg | 1 | 3/5/2018 8:20:40 PM | 36800 | | | |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 3/5/2018 8:20:40 PM | 36800 | | | |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 3/5/2018 8:20:40 PM | 36800 | | | |
| Surr: 4-Bromofluorobenzene | 89.1 | 80-120 | %Rec | 1 | 3/5/2018 8:20:40 PM | 36800 | | | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 11 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-12 South Wall Collection Date: 2/26/2018 11:30:00 AM Received Date: 2/28/2018 9:45:00 AM

| Lab ID: 1802E52-012 | Matrix: SOIL | | Received | Received Date: 2/28/2018 9:45:00 AM | | | |
|--------------------------------|--------------|--------|-----------------|-------------------------------------|----------------------|-------|--|
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA | |
| Chloride | ND | 30 | mg/Kg | 20 | 3/4/2018 1:22:41 PM | 36821 | |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS | 6 | | | Analyst | : TOM | |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 3/5/2018 10:15:29 PM | 36807 | |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 3/5/2018 10:15:29 PM | 36807 | |
| Surr: DNOP | 103 | 70-130 | %Rec | 1 | 3/5/2018 10:15:29 PM | 36807 | |
| EPA METHOD 8015D: GASOLINE RAI | NGE | | | | Analyst | : NSB | |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 3/5/2018 8:43:51 PM | 36800 | |
| Surr: BFB | 86.9 | 15-316 | %Rec | 1 | 3/5/2018 8:43:51 PM | 36800 | |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB | |
| Methyl tert-butyl ether (MTBE) | ND | 0.10 | mg/Kg | 1 | 3/5/2018 8:43:51 PM | 36800 | |
| Benzene | ND | 0.025 | mg/Kg | 1 | 3/5/2018 8:43:51 PM | 36800 | |
| Toluene | ND | 0.050 | mg/Kg | 1 | 3/5/2018 8:43:51 PM | 36800 | |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 3/5/2018 8:43:51 PM | 36800 | |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 3/5/2018 8:43:51 PM | 36800 | |
| Surr: 4-Bromofluorobenzene | 87.3 | 80-120 | %Rec | 1 | 3/5/2018 8:43:51 PM | 36800 | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 12 of 19
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-13 West Wall Collection Date: 2/26/2018 12:15:00 PM Received Date: 2/28/2018 9:45:00 AM

| Lab ID: 1802E52-013 | Matrix: | Matrix: SOIL | | Received Date: 2/28/2018 9:45:00 AM | | | |
|--------------------------------|-------------|--------------|----------|-------------------------------------|----------------------|-------|--|
| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch | |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA | |
| Chloride | 30 | 30 | mg/Kg | 20 | 3/4/2018 1:35:05 PM | 36821 | |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS | 6 | | | Analyst | : ТОМ | |
| Diesel Range Organics (DRO) | ND | 9.4 | mg/Kg | 1 | 3/5/2018 10:39:30 PM | 36807 | |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 3/5/2018 10:39:30 PM | 36807 | |
| Surr: DNOP | 105 | 70-130 | %Rec | 1 | 3/5/2018 10:39:30 PM | 36807 | |
| EPA METHOD 8015D: GASOLINE RAI | NGE | | | | Analyst | : NSB | |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 3/5/2018 9:07:04 PM | 36800 | |
| Surr: BFB | 88.0 | 15-316 | %Rec | 1 | 3/5/2018 9:07:04 PM | 36800 | |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB | |
| Methyl tert-butyl ether (MTBE) | ND | 0.092 | mg/Kg | 1 | 3/5/2018 9:07:04 PM | 36800 | |
| Benzene | ND | 0.023 | mg/Kg | 1 | 3/5/2018 9:07:04 PM | 36800 | |
| Toluene | ND | 0.046 | mg/Kg | 1 | 3/5/2018 9:07:04 PM | 36800 | |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 3/5/2018 9:07:04 PM | 36800 | |
| Xylenes, Total | ND | 0.092 | mg/Kg | 1 | 3/5/2018 9:07:04 PM | 36800 | |
| Surr: 4-Bromofluorobenzene | 87.5 | 80-120 | %Rec | 1 | 3/5/2018 9:07:04 PM | 36800 | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 13 of 19 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Terra Billiken Release 2

Project:

Client Sample ID: SP-14 North Wall Collection Date: 2/26/2018 11:45:00 AM Pageived Date: 2/28/2018 0.45.00 AM

| Lab ID: 1802E52-014 | Matrix: | Received l | Received Date: 2/28/2018 9:45:00 AM | | | | | | |
|--------------------------------|-----------------|------------|--|----|----------------------|-------|--|--|--|
| Analyses | Result PQL Qual | | al Units | DF | Date Analyzed | Batch | | | |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA | | | |
| Chloride | 31 | 30 | mg/Kg | 20 | 3/4/2018 1:47:29 PM | 36821 | | | |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS | 5 | | | Analyst | том | | | |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 3/5/2018 11:03:51 PM | 36807 | | | |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 3/5/2018 11:03:51 PM | 36807 | | | |
| Surr: DNOP | 94.7 | 70-130 | %Rec | 1 | 3/5/2018 11:03:51 PM | 36807 | | | |
| EPA METHOD 8015D: GASOLINE RAI | NGE | | | | Analyst | NSB | | | |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 3/5/2018 9:30:09 PM | 36800 | | | |
| Surr: BFB | 89.8 | 15-316 | %Rec | 1 | 3/5/2018 9:30:09 PM | 36800 | | | |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | NSB | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.098 | mg/Kg | 1 | 3/5/2018 9:30:09 PM | 36800 | | | |
| Benzene | ND | 0.024 | mg/Kg | 1 | 3/5/2018 9:30:09 PM | 36800 | | | |
| Toluene | ND | 0.049 | mg/Kg | 1 | 3/5/2018 9:30:09 PM | 36800 | | | |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 3/5/2018 9:30:09 PM | 36800 | | | |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 3/5/2018 9:30:09 PM | 36800 | | | |
| Surr: 4-Bromofluorobenzene | 89.3 | 80-120 | %Rec | 1 | 3/5/2018 9:30:09 PM | 36800 | | | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 14 of 19 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

| WO#: | 1802E52 |
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08-Mar-18

| Client: Project: | • | & Environmental Solutions Billiken Release 2 | | |
|---------------------|-----------|---|--|------------------------------------|
| Sample ID | MB-36801 | SampType: mblk | TestCode: EPA Method 300. | .0: Anions |
| Client ID: | PBS | Batch ID: 36801 | RunNo: 49514 | |
| Prep Date: | 3/2/2018 | Analysis Date: 3/2/2018 | SeqNo: 1600237 Uni | its: mg/Kg |
| Analyte Chloride | | Result PQL SPK value ND 1.5 | SPK Ref Val %REC LowLimit Hig | ighLimit %RPD RPDLimit Qual |
| Sample ID | LCS-36801 | SampType: Ics | TestCode: EPA Method 300. | .0: Anions |
| Client ID: | LCSS | Batch ID: 36801 | RunNo: 49514 | |
| Prep Date: | 3/2/2018 | Analysis Date: 3/2/2018 | SeqNo: 1600238 Uni | its: mg/Kg |
| Analyte Chloride | | ResultPQLSPK value141.515.00 | SPK Ref Val %REC LowLimit Hig 0 90.6 90 | ighLimit %RPD RPDLimit Qual 110 |
| Sample ID | MB-36821 | SampType: mblk | TestCode: EPA Method 300. | .0: Anions |
| Client ID: | PBS | Batch ID: 36821 | RunNo: 49544 | |
| Prep Date: | 3/4/2018 | Analysis Date: 3/4/2018 | SeqNo: 1601148 Uni | its: mg/Kg |
| Analyte Chloride | | Result PQL SPK value ND 1.5 | SPK Ref Val %REC LowLimit Hig | ighLimit %RPD RPDLimit Qual |
| Sample ID | LCS-36821 | SampType: Ics | TestCode: EPA Method 300. | .0: Anions |
| Client ID: | LCSS | Batch ID: 36821 | RunNo: 49544 | |
| Prep Date: | 3/4/2018 | Analysis Date: 3/4/2018 | SeqNo: 1601149 Uni | its: mg/Kg |
| Analyte Chloride | | Result PQL SPK value 14 1.5 15.00 | SPK Ref Val %REC LowLimit Hig 0 95.3 90 | ighLimit %RPD RPDLimit Qual 110 |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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| | 100000000 |
|------|-----------|
| WO#: | 1802E52 |

08-Mar-18

| Client: Project: | • | Environmer liken Releas | | olutions | | | | | | | |
|---------------------|-------------------|----------------------------|---------------|-----------|-------------|-----------|-----------|--------------------|-----------|------------|------|
| Sample ID | LCS-36807 | SampTy | pe: LC | S | Tes | tCode: El | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: | LCSS | Batch I | ID: 36 | 807 | F | RunNo: 4 | 9530 | | | | |
| Prep Date: | 3/2/2018 | Analysis Da | te: 3/ | 5/2018 | S | SeqNo: 1 | 600960 | Units: mg/k | ٢g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range | Organics (DRO) | 44 | 10 | 50.00 | 0 | 88.3 | 70 | 130 | | | |
| Surr: DNOP | | 4.0 | | 5.000 | | 80.2 | 70 | 130 | | | |
| Sample ID | MB-36807 | SampTy | pe: ME | BLK | Tes | tCode: El | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: | PBS | Batch I | ID: 36 | 807 | F | RunNo: 4 | 9530 | | | | |
| Prep Date: | 3/2/2018 | Analysis Da | te: 3/ | 5/2018 | 5 | SeqNo: 1 | 600961 | Units: mg/k | ٢g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| • | Organics (DRO) | ND | 10 | | | | | | | | |
| | je Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | | 9.5 | | 10.00 | | 95.1 | 70 | 130 | | | |
| Sample ID | 1802E52-001AMS | SampTy | pe: MS | 6 | Tes | tCode: El | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: | SP-1 Bottom 4Ft | Batch I | ID: 36 | 807 | F | RunNo: 4 | 9530 | | | | |
| Prep Date: | 3/2/2018 | Analysis Da | te: 3/ | 5/2018 | 5 | SeqNo: 1 | 602070 | Units: mg/k | ٢g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range | Organics (DRO) | 49 | 10 | 50.86 | 0 | 95.8 | 55.8 | 125 | | | |
| Surr: DNOP | | 4.6 | | 5.086 | | 90.3 | 70 | 130 | | | |
| Sample ID | 1802E52-001AMS | D SampTy | pe: MS | SD | Tes | tCode: El | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: | SP-1 Bottom 4Ft | Batch I | ID: 36 | 807 | F | RunNo: 4 | 9530 | | | | |
| Prep Date: | 3/2/2018 | Analysis Da | te: 3/ | 5/2018 | S | SeqNo: 1 | 602071 | Units: mg/k | ٢g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| • | Organics (DRO) | 45 | 9.4 | 46.99 | 0 | 95.1 | 55.8 | 125 | 8.63 | 20 | |
| Surr: DNOP | | 4.6 | | 4.699 | | 97.0 | 70 | 130 | 0 | 0 | |

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
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| WO#: | 1802E52 |
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| Client: Project: | • | Environmer liken Releas | | olutions | | | | | | | |
|--|---|---|---|--|--|--|--|---|-------------------------|---------------|------|
| Sample ID | MB-36800 | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | | |
| Client ID: | PBS | Batch I | ID: 36 | 800 | R | unNo: 4 | 9541 | | | | |
| Prep Date: | 3/2/2018 | Analysis Da | ite: 3/ | /5/2018 | S | SeqNo: 1 | 601997 | Units: mg/k | ٢g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang | ge Organics (GRO) | ND | 5.0 | | | | | - | | | |
| Surr: BFB | | 910 | | 1000 | | 91.3 | 15 | 316 | | | |
| Sample ID | LCS-36800 | SampTy | pe: LC | s | Tes | tCode: El | PA Method | 8015D: Gaso | line Rang | e | |
| Client ID: | LCSS | Batch I | ID: 36 | 800 | R | unNo: 4 | 9541 | | | | |
| Prep Date: | 3/2/2018 | Analysis Da | ite: 3/ | /5/2018 | S | SeqNo: 1 | 601998 | Units: mg/k | ٢g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang | ge Organics (GRO) | 30 | 5.0 | 25.00 | 0 | 119 | 75.9 | 131 | | | |
| Surr: BFB | | 4400 | | 1000 | | 115 | 15 | 316 | | | |
| JUIL DI D | | 1100 | | 1000 | | 115 | 15 | 510 | | | |
| | 1802E52-002AMS | | pe: M \$ | | Tes | | | 8015D: Gaso | oline Rang | e | |
| | | | | 5 | | | PA Method | | oline Rang | e | |
| Sample ID | SP-2 North Wall | SampTy | ID: 36 | S 800 | R | tCode: El | PA Method 9541 | | Ū | e | |
| Sample ID Client ID: | SP-2 North Wall | SampTy Batch | ID: 36 | S 800 /5/2018 | R | tCode: El RunNo: 49 SeqNo: 10 | PA Method 9541 | 8015D: Gasc | Ū | e RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Analyte | SP-2 North Wall | SampTy Batch I Analysis Da | ID: 36 Ite: 3/ | S 800 /5/2018 | ਸ S | tCode: EF RunNo: 49 SeqNo: 10 | PA Method 9541 602001 | 8015D: Gasc Units: mg/k | (g | | Qual |
| Sample ID Client ID: Prep Date: Analyte | SP-2 North Wall 3/2/2018 | SampTy Batch I Analysis Da Result | ID: 36 Ite: 3/ PQL | 5 800 /5/2018 SPK value | R S SPK Ref Val | tCode: Ef RunNo: 49 SeqNo: 10 %REC | PA Method 9541 602001 LowLimit | 8015D: Gasc Units: mg/k HighLimit | (g | | Qual |
| Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB | SP-2 North Wall 3/2/2018 | SampTy Batch I Analysis Da Result 24 1000 | ID: 36 Ite: 3/ PQL 4.8 | S 800 /5/2018 SPK value 23.97 958.8 | R S SPK Ref Val 0 | tCode: EF RunNo: 49 SeqNo: 10 %REC 101 107 | PA Method 9541 602001 LowLimit 77.8 15 | 8015D: Gasc Units: mg/k HighLimit 128 | رg %RPD | RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB | SP-2 North Wall 3/2/2018 ge Organics (GRO) 1802E52-002AMS | SampTy Batch I Analysis Da Result 24 1000 | ID: 36 Ite: 3/ PQL 4.8 pe: M \$ | S 800 /5/2018 SPK value 23.97 958.8 SD | R S SPK Ref Val 0 Tes | tCode: EF RunNo: 49 SeqNo: 10 %REC 101 107 | PA Method 9541 602001 LowLimit 77.8 15 PA Method | 8015D: Gaso Units: mg/k HighLimit 128 316 | رg %RPD | RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: | SP-2 North Wall 3/2/2018 ge Organics (GRO) 1802E52-002AMS | SampTy Batch Analysis Da Result 24 1000 D SampTy | ID: 36 Ite: 3/ PQL 4.8 ID: 36 | S 800 /5/2018 SPK value 23.97 958.8 SD 800 | R S SPK Ref Val 0 Tes R | tCode: EF RunNo: 49 SeqNo: 10 %REC 101 107 tCode: EF | PA Method 9541 602001 LowLimit 77.8 15 PA Method 9541 | 8015D: Gaso Units: mg/k HighLimit 128 316 | Sg %RPD | RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: | SP-2 North Wall 3/2/2018 ge Organics (GRO) 1802E52-002AMS SP-2 North Wall | SampTy Batch I Analysis Da Result 24 1000 D SampTy Batch I | ID: 36 Ite: 3/ PQL 4.8 ID: 36 | S 800 /5/2018 SPK value 23.97 958.8 SD 800 /5/2018 | R S SPK Ref Val 0 Tes R | tCode: EF RunNo: 49 SeqNo: 10 %REC 101 107 tCode: EF RunNo: 49 | PA Method 9541 602001 LowLimit 77.8 15 PA Method 9541 | 8015D: Gaso Units: mg/k HighLimit 128 316 8015D: Gaso | Sg %RPD | RPDLimit | Qual |
| Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte | SP-2 North Wall 3/2/2018 ge Organics (GRO) 1802E52-002AMS SP-2 North Wall | SampTy Batch I Analysis Da Result 24 1000 D SampTy Batch I Analysis Da | ID: 36 ite: 3/ PQL 4.8 pe: MS ID: 36 ite: 3/ | S 800 /5/2018 SPK value 23.97 958.8 SD 800 /5/2018 | R SPK Ref Val 0 Tes R S | tCode: EF RunNo: 49 SeqNo: 10 %REC 101 107 tCode: EF RunNo: 49 SeqNo: 10 | PA Method 9541 602001 LowLimit 77.8 15 PA Method 9541 602002 | 8015D: Gasc Units: mg/k HighLimit 128 316 8015D: Gasc Units: mg/k | Kg %RPD Dine Rang | RPDLimit e | |

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
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Safety & Environmental Solutions

| Deratasta | • | | | | | | | | | | |
|---|--|--|---|---|--|--|---|---|---|----------------------|------|
| Project: | | liken Rele | ase 2 | | | | | | | | |
| Sample ID | MB-36800 | SampT | уре: МЕ | BLK | Test | Code: El | PA Method | 8021B: Volat | iles | | |
| Client ID: | PBS | Batch | h ID: 36 | 800 | R | unNo: 4 | 9541 | | | | |
| Prep Date: | 3/2/2018 | Analysis D | Date: 3/ | 5/2018 | S | eqNo: 1 | 602035 | Units: mg/k | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Methyl tert-buty | l ether (MTBE) | ND | 0.10 | | | | | | | | |
| Benzene | | ND | 0.025 | | | | | | | | |
| Foluene | | ND | 0.050 | | | | | | | | |
| Ethylbenzene | | ND | 0.050 | | | | | | | | |
| Kylenes, Total | | ND | 0.10 | | | | | | | | |
| Surr: 4-Brom | ofluorobenzene | 0.92 | | 1.000 | | 92.1 | 80 | 120 | | | |
| Sample ID | LCS-36800 | SampT | ype: LC | S | Test | Code: El | PA Method | 8021B: Volat | iles | | |
| Client ID: | LCSS | Batch | h ID: 36 | 800 | R | unNo: 4 | 9541 | | | | |
| Prep Date: | 3/2/2018 | Analysis D | Date: 3/ | 5/2018 | S | eqNo: 1 | 602036 | Units: mg/K | g | | |
| Analyte | | Result | PQL | | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Methyl tert-buty | l ether (MTBE) | 0.93 | 0.10 | 1.000 | 0 | 92.8 | 70.1 | 121 | | | |
| Benzene | | 1.0 | 0.025 | 1.000 | 0 | 102 | 77.3 | 128 | | | |
| Foluene | | 1.0 | 0.050 | 1.000 | 0 | 103 | 79.2 | 125 | | | |
| Ethylbenzene | | 1.0 | 0.050 | 1.000 | 0 | 102 | 80.7 | 127 | | | |
| (ylenes, Total | | 3.1 | 0.10 | 3.000 | 0 | 104 | 81.6 | 129 | | | |
| Surr: 4-Brom | ofluorobenzene | 0.95 | | 1.000 | | 94.6 | 80 | 120 | | | |
| | | | | | | | | | | | |
| Sample ID | 1802E52-001AMS | SampT | уре: МS | 6 | Test | Code: El | PA Method | 8021B: Volat | iles | | |
| · | 1802E52-001AMS SP-1 Bottom 4Ft | • | ype: MS h ID: 36 | | | Code: El | | 8021B: Volat | iles | | |
| Client ID: | SP-1 Bottom 4Ft | • | h ID: 36 | 800 | R | | 9541 | 8021B: Volat Units: mg/k | | | |
| Client ID: Prep Date: | SP-1 Bottom 4Ft | Batch | h ID: 36 | 800 5/2018 | R | unNo: 4 | 9541 | | | RPDLimit | Qual |
| Client ID: Prep Date: Analyte | SP-1 Bottom 4Ft 3/2/2018 | Batch Analysis D | n ID: 36 Date: 3/ | 800 5/2018 SPK value 0.9804 | R | unNo: 49 eqNo: 10 | 9541 602038 | Units: mg/k | g | RPDLimit | Qual |
| Client ID: Prep Date: Analyte //ethyl tert-buty | SP-1 Bottom 4Ft 3/2/2018 | Batch Analysis D Result | h ID: 36 Date: 3/ PQL | 800 5/2018 SPK value | R S SPK Ref Val | unNo: 49 eqNo: 10 %REC | 9 541 602038 LowLimit | Units: mg/k HighLimit | g | RPDLimit | Qual |
| Client ID: Prep Date: Analyte Methyl tert-buty Benzene Toluene | SP-1 Bottom 4Ft 3/2/2018 | Batch Analysis D Result 0.82 0.91 0.92 | n ID: 36 Date: 3/ PQL 0.098 | 800 5/2018 SPK value 0.9804 | R S SPK Ref Val 0 | unNo: 49 eqNo: 10 <u>%REC</u> 83.3 92.9 94.2 | 9541 602038 LowLimit 72.5 | Units: mg/K HighLimit 138 | g | RPDLimit | Qual |
| Client ID: Prep Date: Analyte Methyl tert-buty Benzene Foluene Ethylbenzene | SP-1 Bottom 4Ft 3/2/2018 | Batch Analysis D Result 0.82 0.91 | PQL 0.098 0.025 0.049 0.049 | 800 5/2018 SPK value 0.9804 0.9804 0.9804 0.9804 | R S SPK Ref Val 0 0 | unNo: 49 eqNo: 10 <u>%REC</u> 83.3 92.9 | 9541 602038 LowLimit 72.5 80.9 | Units: mg/K HighLimit 138 132 | g | RPDLimit | Qual |
| Client ID: Prep Date: Analyte Methyl tert-buty Benzene Foluene Ethylbenzene Kylenes, Total | SP-1 Bottom 4Ft 3/2/2018 | Batch Analysis D Result 0.82 0.91 0.92 0.91 2.8 | n ID: 36 Date: 3 <u>PQL</u> 0.098 0.025 0.049 | 800 5/2018 SPK value 0.9804 0.9804 0.9804 0.9804 2.941 | R S SPK Ref Val 0 0 0 | unNo: 49 eqNo: 10 <u>%REC</u> 83.3 92.9 94.2 93.0 96.2 | 9541 602038 LowLimit 72.5 80.9 79.8 79.4 78.5 | Units: mg/K HighLimit 138 132 136 140 142 | g | RPDLimit | Qual |
| Client ID: Prep Date: Analyte Methyl tert-buty Benzene oluene thylbenzene Kylenes, Total | SP-1 Bottom 4Ft 3/2/2018 | Batch Analysis D Result 0.82 0.91 0.92 0.91 | PQL 0.098 0.025 0.049 0.049 | 800 5/2018 SPK value 0.9804 0.9804 0.9804 0.9804 | R SPK Ref Val 0 0 0 0 | unNo: 4 9 eqNo: 10 <u>%REC</u> 83.3 92.9 94.2 93.0 | 502038 LowLimit 72.5 80.9 79.8 79.4 | Units: mg/K HighLimit 138 132 136 140 | g | RPDLimit | Qual |
| Client ID: Prep Date: Analyte Methyl tert-buty Benzene Foluene Ethylbenzene Kylenes, Total Surr: 4-Brom | SP-1 Bottom 4Ft 3/2/2018 | Batch Analysis D Result 0.82 0.91 0.92 0.91 2.8 0.88 | PQL 0.098 0.025 0.049 0.049 | 800 5/2018 SPK value 0.9804 0.9804 0.9804 2.941 0.9804 | R SPK Ref Val 0 0 0 0 0 | unNo: 49 eqNo: 10 <u>%REC</u> 83.3 92.9 94.2 93.0 96.2 89.5 | 9541 602038 LowLimit 72.5 80.9 79.8 79.4 78.5 80 | Units: mg/K HighLimit 138 132 136 140 142 | íg %RPD | RPDLimit | Qual |
| Client ID: Prep Date: Analyte Methyl tert-buty Benzene Foluene Ethylbenzene Kylenes, Total Surr: 4-Brom | SP-1 Bottom 4Ft 3/2/2018 | Batch Analysis D 0.82 0.91 0.92 0.91 2.8 0.88 D SampT | Date: 3/ PQL 0.098 0.025 0.049 0.049 0.098 | 800 5/2018 SPK value 0.9804 0.9804 0.9804 0.9804 2.941 0.9804 | R SPK Ref Val 0 0 0 0 0 0 0 Test | unNo: 49 eqNo: 10 <u>%REC</u> 83.3 92.9 94.2 93.0 96.2 89.5 | 2541 602038 LowLimit 72.5 80.9 79.8 79.4 78.5 80 29A Method | Units: mg/K HighLimit 138 132 136 140 142 120 | íg %RPD | RPDLimit | Qual |
| Client ID: Prep Date: Analyte Methyl tert-buty Benzene Coluene Ethylbenzene Cylenes, Total Surr: 4-Brom Sample ID Client ID: | SP-1 Bottom 4Ft 3/2/2018 If ether (MTBE) ofluorobenzene 1802E52-001AMSI SP-1 Bottom 4Ft | Batch Analysis D 0.82 0.91 0.92 0.91 2.8 0.88 D SampT | ID: 36i Date: 3/ PQL 0.098 0.025 0.049 0.049 0.049 0.098 0.025 bit 0.098 0.098 0.0198 0.098 0.025 0.098 0.038 | 800 5/2018 SPK value 0.9804 0.9804 0.9804 2.941 0.9804 2.941 0.9804 | R SPK Ref Val 0 0 0 0 0 Test | unNo: 49 eqNo: 10 <u>%REC</u> 83.3 92.9 94.2 93.0 96.2 89.5 Code: EF | 9541 602038 LowLimit 72.5 80.9 79.8 79.4 78.5 80 PA Method 9541 | Units: mg/K HighLimit 138 132 136 140 142 120 | íg %RPD | RPDLimit | Qual |
| Client ID: Prep Date: Analyte Methyl tert-buty Benzene Coluene Ethylbenzene Kylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte | SP-1 Bottom 4Ft 3/2/2018 It ether (MTBE) ofluorobenzene 1802E52-001AMSI SP-1 Bottom 4Ft 3/2/2018 | Batch Analysis D 0.82 0.91 0.92 0.91 2.8 0.88 D SampT Batch Analysis D Result | PQL PQL 0.098 0.025 0.049 0.049 0.049 0.098 0.049 0.098 0.025 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.025 0.049 0.025 0.049 0.025 0.049 0.028 0.025 0.049 0.028 0.025 0.049 0.028 0.025 0.049 0.028 0.025 0.049 0.028 0.025 0.049 0.028 0.025 0.049 0.028 0.025 0.049 0.028 0.028 0.025 0.049 0.028 0.028 0.025 0.049 0.028 0.028 0.028 0.029 0.049 0.028 0.028 0.029 0.049 0.029 0.029 0.049 0.028 0.028 0.029 0.021 | 800 5/2018 SPK value 0.9804 0.9804 0.9804 2.941 0.9804 2.941 0.9804 50 50 5/2018 SPK value | R SPK Ref Val 0 0 0 0 0 Test | unNo: 49 eqNo: 10 <u>%REC</u> 83.3 92.9 94.2 93.0 96.2 89.5 Code: EF unNo: 49 eqNo: 10 %REC | 9541 602038 LowLimit 72.5 80.9 79.8 79.4 78.5 80 PA Method 9541 602039 LowLimit | Units: mg/K HighLimit 138 132 136 140 142 120 8021B: Volat | íg %RPD iiles íg %RPD | RPDLimit | Qual |
| Client ID: Prep Date: Analyte Methyl tert-buty Benzene Coluene Ethylbenzene Kylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte | SP-1 Bottom 4Ft 3/2/2018 It ether (MTBE) ofluorobenzene 1802E52-001AMSI SP-1 Bottom 4Ft 3/2/2018 | Analysis D Result 0.82 0.91 0.92 0.91 2.8 0.88 D SampT Batch Analysis D Result 0.84 | PQL 0.098 0.025 0.049 0.049 0.049 0.049 0.098 Type: MS h ID: 364 Date: 3/ PQL 0.10 | 800 5/2018 SPK value 0.9804 0.9804 0.9804 2.941 0.9804 SD 800 5/2018 SPK value 0.9980 | R SPK Ref Val 0 0 0 0 0 Test R S | unNo: 49 eqNo: 10 <u>%REC</u> 83.3 92.9 94.2 93.0 96.2 89.5 Code: EF unNo: 49 eqNo: 10 <u>%REC</u> 83.9 | 9541 602038 LowLimit 72.5 80.9 79.8 79.4 79.4 78.5 80 PA Method 9541 602039 LowLimit 72.5 | Units: mg/K HighLimit 138 132 136 140 142 120 8021B: Volat Units: mg/K | 5g %RPD iiles 5g %RPD 2.57 | RPDLimit 20 | |
| Client ID: Prep Date: Analyte Methyl tert-buty Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom | SP-1 Bottom 4Ft 3/2/2018 It ether (MTBE) ofluorobenzene 1802E52-001AMSI SP-1 Bottom 4Ft 3/2/2018 | Batcl Analysis D 0.82 0.91 0.92 0.91 2.8 0.88 D SampT Batcl Analysis D Result 0.84 0.93 | PQL PQL 0.098 0.025 0.049 0.049 0.049 0.098 0.049 0.098 0.025 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.049 0.025 0.049 0.025 0.049 0.025 0.049 0.028 0.025 0.049 0.028 0.025 0.049 0.028 0.025 0.049 0.028 0.025 0.049 0.028 0.025 0.049 0.028 0.025 0.049 0.028 0.025 0.049 0.028 0.028 0.025 0.049 0.028 0.028 0.025 0.049 0.028 0.028 0.028 0.029 0.049 0.028 0.028 0.029 0.049 0.029 0.029 0.049 0.028 0.028 0.029 0.021 | 800 5/2018 SPK value 0.9804 0.9804 0.9804 2.941 0.9804 5/2018 SPK value 0.9980 0.9980 0.9980 | R SPK Ref Val 0 0 0 0 0 Test R SPK Ref Val | unNo: 49 eqNo: 10 <u>%REC</u> 83.3 92.9 94.2 93.0 96.2 89.5 Code: EF unNo: 49 eqNo: 10 %REC | 9541 602038 LowLimit 72.5 80.9 79.8 79.4 78.5 80 PA Method 9541 602039 LowLimit | Units: mg/K HighLimit 138 132 136 140 142 120 8021B: Volat Units: mg/K HighLimit | 2g %RPD iiles 2.57 2.20 | RPDLimit 20 20 | |
| Client ID: Prep Date: Analyte Methyl tert-buty Benzene Foluene Ethylbenzene Kylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Methyl tert-buty | SP-1 Bottom 4Ft 3/2/2018 It ether (MTBE) ofluorobenzene 1802E52-001AMSI SP-1 Bottom 4Ft 3/2/2018 | Analysis D Result 0.82 0.91 0.92 0.91 2.8 0.88 D SampT Batch Analysis D Result 0.84 | PQL 0.098 0.025 0.049 0.049 0.049 0.049 0.098 Type: MS h ID: 364 Date: 3/ PQL 0.10 | 800 5/2018 SPK value 0.9804 0.9804 0.9804 2.941 0.9804 SD 800 5/2018 SPK value 0.9980 | R SPK Ref Val 0 0 0 0 0 Test R SPK Ref Val 0 | unNo: 49 eqNo: 10 <u>%REC</u> 83.3 92.9 94.2 93.0 96.2 89.5 Code: EF unNo: 49 eqNo: 10 <u>%REC</u> 83.9 | 9541 602038 LowLimit 72.5 80.9 79.8 79.4 79.4 78.5 80 PA Method 9541 602039 LowLimit 72.5 | Units: mg/K HighLimit 138 132 136 140 142 120 8021B: Volat Units: mg/K HighLimit 138 | 5g %RPD iiles 5g %RPD 2.57 | RPDLimit 20 | |

Qualifiers:

Client:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1802E52

08-Mar-18

| Client: Project: | Safety & I Terra Bill | | | olutions | | | | | | | |
|---------------------|--------------------------|----------------|----------------|-----------|-------------|-----------|-----------|--------------------|-------|----------|------|
| Sample ID | 1802E52-001AMSE |) SampT | ype: MS | SD. | Tes | tCode: El | PA Method | 8021B: Vola | tiles | | |
| Client ID: | SP-1 Bottom 4Ft | Batch | n ID: 36 | 800 | R | unNo: 4 | 9541 | | | | |
| Prep Date: | 3/2/2018 | Analysis D | ate: 3/ | 5/2018 | S | SeqNo: 1 | 602039 | Units: mg/k | ٤g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Xylenes, Total | | 2.9 | 0.10 | 2.994 | 0 | 96.3 | 78.5 | 142 | 1.88 | 20 | |
| Surr: 4-Bromo | fluorobenzene | 0.88 | | 0.9980 | | 88.3 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 19 of 19

| HALL ENVIRONMENTAL ANALYSIS LABORATORY | | 001 Hawkins NE. rque, NM 87109 7: 505-345-4107 | Sam | nple Log-In C | heck List |
|--|--|--|--------|-----------------------------------|-------------------|
| Client Name: Safety Env Solutions | Work Order Number: 18 | 02E52 | | RcptNo: | 1 |
| Received By: Mandy Woods | 2/28/2018 9:45:00 AM | Ч | Mas | | |
| Completed By: Ashley Gallegos | 2/28/2018 11:08:09 AM | 4 | Ę | | |
| Reviewed By: MW 2/28/16 | lat | seled b | ·4: _ | | |
| Chain of Custody | | | | | |
| 1. Is Chain of Custody complete? | Ye | s 🔽 | No 🗌 | Not Present | |
| 2. How was the sample delivered? | <u>Co</u> | urier | | | |
| Log In | | | | | |
| 3. Was an attempt made to cool the samples? | Yes | ; 🗹 🛛 | No 🗌 | NA 🗌 | |
| 4. Were all samples received at a temperature of | f >0° C to 6.0°C Yes | ; 🖌 I | No 🗌 | NA 🗌 | |
| 5. Sample(s) in proper container(s)? | Yes | ; 🗹 I | No [] | | |
| 6. Sufficient sample volume for indicated test(s)? | Yes | | 10 | | |
| 7. Are samples (except VOA and ONG) properly | preserved? Yes | | lo 🗔 | | |
| 8. Was preservative added to bottles? | Yes | | 10 🔽 | NA 🗌 | |
| 9. VOA vials have zero headspace? | Yes | | lo 🗌 | No VOA Vials 🔽 | |
| 10. Were any sample containers received broken | ? Yes | , 🗆 🛛 | No 🔽 - | | |
| | | | İ | # of preserved bottles checked | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes | V N | lo 🗆 | for pH: | >12 unless noted) |
| 12. Are matrices correctly identified on Chain of C | ustody? Yes | ✓ N | lo 🗋 🗄 | Adjusted? | |
| 13. Is it clear what analyses were requested? | Yes | ✓ N | lo 🗌 🛛 | | |
| Were all holding times able to be met? (If no, notify customer for authorization.) | Yes | ✓ N | lo 🗆 🛓 | Checked by: | |
| Special Handling (if applicable) | | | | | |
| 15. Was client notified of all discrepancies with th | is order? Yes | п П | No 🗌 | NA 🔽 | |
| Person Notified: | Date | | | | |
| By Whom: | Via: 🗌 eM | ail 🔲 Phone | 🗌 Fax | In Person | |
| Regarding: | an a | | | | |
| Client Instructions: | | | | | |
| 16. Additional remarks: | | | | | |
| 17. <u>Cooler Information</u> <u>Cooler No Temp °C Condition Sea</u> 1 2.3 Good Yes | I Intact Seal No Seal D | ate Signe | d By | | |

- -
| R | 20 | くちろう | att & outverment | D Standard | ard toRush | | ħ | V | | | STO | | | AALL ENVIKONMENTAL | |
|----------------|------------------|-----------|---------------------------|-------------------------|----------------------|-------------------------|------------------------|-------------------|------------------------|---------------------------|-------------|------------------|-----------------------|--------------------|-------------|
| 3 | Solutions | with a | | Project Name:- | 13 | | | H. | NWA | www.hallenvironmental.com | virpnm | ental.c | E E | ALOK | |
| 1.00 | 203 | S C. | CLINTON | Bulliken | EN Rul | 24 4 2 | 49 | 4901 Hawkins NE | wkins h | 1.1 | pndne | rque. N | Albuquerque, NM 87109 | - | |
| 1+5/bbc | NIM | 88240 | 50 | Project #: | | | - | Tel: 505-345-3975 | -345-3 | | Fax 5 | 505-345-4107 | 4107 | | |
| Phone #: 575- | 1 X I | 397-0510 | 0 | 101 | 12-17-0 | -002 | | | | Ana | lysis R | Analysis Request | | | |
| email or Fax#: | | | | Project Manager | iger: | | - | _ | | - | (*0 | | | | |
| QA/QC Package: | | □ Level 4 | Level 4 (Full Validation) | Alle | then 15 | d) | | | _ | (SWI | bo, soq | PCB's | (008 | 100 | |
| Accreditation | | | | Sampler: S | yosh len | 4 | | ID. | | S 0/ | 'ZON | 280 | 5 | | () |
| D NELAP | D Other | - | | | · 本 Yés | d No | _ | 30 | | _ | - | 8/5 | (A | | 110 |
| C EDD (Type) | - | | | Sample Temperature | perature. | 30 | | (GI | | | - | | - | _ | V) |
| Date Time | Matrix | Samp | Sample Request ID | Container Type and # | Preservative Type | HEAL NO ISDA EGA | TM + Xəta TM + Xəta | 86108 H9T | EDB (Weth TPH (Meth | PAH's (831 M8 ARDR | 2,7) anoinA | OV) 80828 | ime2) 0728 | | səlddu8 1iA |
| 210) EZ | V | 201. | Rollow 415 | 1 | Next | 100- | X | 7 | | | | | X | | - |
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| 123 1100 | S | 55-32 | - | 1 | | -003 | - | | | | | | | | - |
| 23 1245 | 5 | SP-4 | war war | 1 | | -004 | | | | | | | | | |
| 23 1315 | S | SPOS | Rottom 4 14 | 1 | | -005 | | - | | | | | | | - |
| 07/21 22 | s | SP-6 | Gast Wail | 1 | | -000 | / | - | | | | | | | |
| 51/11 82 | 5 | 5P-7 | Rettern 445 | 1 | | -00- | 1 | | | | | | | | - |
| 26 0 400 | 5 | | U1617 UN-4 | / | / | -008 | _ | / | | | | | | | |
| 6640 42 | 2 | Spe | Report 4A | 1 | | -009 | | - | | | | _ | 1 | | |
| alse outs | 5 | 0 | Walk wer | l | 1 | 010 | | | | | | | | | |
| 12/26 1333 | 2 | 59-11 | Remonite | | | 110- | 1 | 1 | Ľ | | | | | | |
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| 27/13 0900 | Rejectorshed by: | L fur | 1× | Received by four it | 14 | 2 28. \$PU Date Time 10 | Remarks | ŝ | | | | | 4 | | |
| Dale Tric R | Relinquished by | () | | Repaired by: | | Date Time | | | | | | | | | |

| All Market All All Market All Market All | 5 | 2 | cord | | 5 DAU | Duch | | | I | AL | | N | | INC | HALL ENVIRONMENTAL | AL |
|--|-----------|----------|---------------------------|-------------------------|----------------------|----------|---|--------|--------|-------|-------|--|---------|-------|--------------------|----|
| C. Clurvrow R.I.I.I.tou R. Level R.I.I.I.tou R. Level Level Level Land R 2.20 Project #: 2001 Hawkins NE 11000 (4 (Full Validation)) 11000 (4 (Full Validation)) 11000 (4 (Full Validation)) 11000 (4 (Full Validation)) R 2.20 Project #: 727.02 727.02 11000 (4 (Full Validation)) 11000 (4 (Full Validation)) 11000 (4 (Full Validation)) R 2.20 Project Marager Project Marager 11000 (4 (Full Validation)) 11000 (4 (Full Validation)) 11000 (4 (Full Validation)) R 2.20 R 1000 (10000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (1000 (| | 03 | | Project Nam | Thirty ? | | | | < < | NA | LY | SIS | | BO | RATO | RY |
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| Address B270 (Somi-VO.) Phylocit Manager Phylocit Manager Phylocit Phylo | A COMPANY | | 88240 | Project #: | | | | Tel. 5 | 05-34 | 5-397 | | ax 5 | 05-34 | 5-410 | 2 | |
| Project Manager Project Manager Project Manager Project Manager Aff Lan Aff Lan Aff Lan Sampler: Aff Lan Aff Lan Aff Lan | 1.1 | | | 16 | ĩ | 200 | 0 | | | | Analy | | eque | st | | |
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| Sample Request ID Container Preservative Type and # Type and # Type and # Type and # </td <td>r 11</td> <td></td> <td></td> <td>Sample Tem</td> <td>0</td> <td>3.</td> <td></td> <td></td> <td>_</td> <td>_</td> <td></td> <td>_</td> <td></td> <td></td> <td>ריק</td> <td></td> | r 11 | | | Sample Tem | 0 | 3. | | | _ | _ | | _ | | | ריק | |
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March 13, 2018

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: TER -17-002

Enclosed are the results of analyses for samples received by the laboratory on 03/02/18 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 | 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



| Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240 | Project: TER -17-002 Project Number: TER - 17- 002 Project Manager: Bob Allen Fax To: (575) 393-4388 | Reported: 13-Mar-18 16:24 |
|---|---|------------------------------|
|---|---|------------------------------|

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|----------------------|---------------|--------|-----------------|-----------------|
| SP -15 SURFACE | H800619-01 | Soil | 01-Mar-18 00:00 | 02-Mar-18 09:00 |
| SP -15 2.5' | H800619-02 | Soil | 01-Mar-18 00:00 | 02-Mar-18 09:00 |
| SP -15 4' | H800619-03 | Soil | 01-Mar-18 00:00 | 02-Mar-18 09:00 |
| SP -16 SURFACE NORTH | H800619-04 | Soil | 01-Mar-18 00:00 | 02-Mar-18 09:00 |
| SP -16 2.5' NORTH | H800619-05 | Soil | 01-Mar-18 00:00 | 02-Mar-18 09:00 |
| SP -16 4' NORTH | H800619-06 | Soil | 01-Mar-18 00:00 | 02-Mar-18 09:00 |
| SP -17 SURFACE SOUTH | H800619-07 | Soil | 01-Mar-18 00:00 | 02-Mar-18 09:00 |
| SP -17 2.5' SOUTH | H800619-08 | Soil | 01-Mar-18 00:00 | 02-Mar-18 09:00 |
| SP -17 4' SOUTH | H800619-09 | Soil | 01-Mar-18 00:00 | 02-Mar-18 09:00 |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| Safety & Environmental Solutio 703 East Clinton Hobbs NM, 88240 | ons | | Project Num Project Mana | ger: Bob | - 17- 002 | 8 | | 1 | Reported: 3-Mar-18 16: | 24 |
|---|--------------|------|-----------------------------|---------------------|-----------|---------|---------|-----------|---------------------------|-------|
| | | | | SURFA 519-01 (So | | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
| | | | Cardina | l Laborat | ories | | | | | |
| Volatile Organic Compounds by | EPA Method 8 | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 89.9 % | 72- | 148 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8030203 | MS | 05-Mar-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8030203 | MS | 05-Mar-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8030203 | MS | 05-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 112 % | 41- | 142 | 8030203 | MS | 05-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 98.0 % | 37.6 | -147 | 8030203 | MS | 05-Mar-18 | 8015B | |
| Soluble (DI Water Extraction) | | | Green Analy | tical Lab | oratories | | | | | |

10.0

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Chloride

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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 whitstoewer 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 reprodued except in full with written approval of Cardinal Laboratories.

mg/kg wet

B803030

10

JDA

07-Mar-18

EPA300.0

Celey D. Keine

<10.0

Celey D. Keene, Lab Director/Quality Manager



| Safety & Environmental Sc 703 East Clinton Hobbs NM, 88240 | olutions | | Project Nun Project Mana | | - 17- 002 Allen | 8 | | 1 | Reported: 3-Mar-18 16: | 24 |
|--|---------------|------|-----------------------------|--------------------------|--------------------|---------|---------|-----------|---------------------------|-------|
| | | | | P -15 2.5' 619-02 (So | il) | | | | | |
| 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 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PII | D) | | 92.8 % | 72 | 48 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Petroleum Hydrocarbons by | GC FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8030203 | MS | 05-Mar-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8030203 | MS | 05-Mar-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8030203 | MS | 05-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 105 % | 41 | 42 | 8030203 | MS | 05-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 93.6 % | 37.6- | 147 | 8030203 | MS | 05-Mar-18 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction | 1) | | | | | | | | | |
| Chloride | <10.0 | | 10.0 | mg/kg wet | 10 | B803030 | JDA | 07-Mar-18 | EPA300.0 | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| Safety & Environmental Solut 703 East Clinton Hobbs NM, 88240 | tions | | Project Num Project Mana | | - 17- 002 Allen | 8 | | 1 | Reported: 3-Mar-18 16: | 24 |
|---|--------------|------|-----------------------------|------------------------|--------------------|---------|---------|-----------|---------------------------|-------|
| | | | | P -15 4' 619-03 (So | il) | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
| | | | Cardina | al Laborat | ories | | | | | |
| Volatile Organic Compounds by | v EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | 0021 | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 92.7 % | 72-1 | 48 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Petroleum Hydrocarbons by GC | C FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 94.6 % | 41-1 | 42 | 8030205 | MS | 03-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 85.0 % | 37.6- | 147 | 8030205 | MS | 03-Mar-18 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | 47.0 | | 10.0 | mg/kg wet | 10 | B803030 | JDA | 07-Mar-18 | EPA300.0 | |

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Celey D. Keene, Lab Director/Quality Manager



| Safety & Environmental Solutio 703 East Clinton Hobbs NM, 88240 | ons | | Project Nun Project Mana | ager: Bob | - 17- 002 | 8 | | 1 | Reported: 3-Mar-18 16: | 24 |
|---|------------|------|-----------------------------|-----------------------|-----------|---------|---------|-----------|---------------------------|-------|
| | | | SP -16 SU H800 | RFACE 1 619-04 (So | | | | | | |
| 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 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 91.2 % | 72- | 148 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 104 % | 41- | 142 | 8030205 | MS | 03-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 94.6 % | 37.6 | -147 | 8030205 | MS | 03-Mar-18 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) Chloride | <10.0 | | 10.0 | mg/kg wet | 10 | B803030 | JDA | 07-Mar-18 | EPA300.0 | |

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Celey D. Keene, Lab Director/Quality Manager



| SP-16 2.5' NORTH 1880619-05 (Soil) Malyte Result MDL Reporting Limit Units Dilution Batch Analyst Analyzed Method Cardinal Laboratories Ponzene* 0.050 0.050 MOL 0.050 Molt Method Cardinal Laboratories Benzene* 0.050 mg/kg 50 803056 MS 06-Mar-18 8021B Toluene* 0.050 mg/kg 50 803056 MS 06-Mar-18 8021B Ethylhenzene* 0.050 mg/kg 50 803056 MS 06-Mar-18 8021B Total Xylenes* 0.150 mg/kg 50 803056 MS 06-Mar-18 8021B Surrogate: 0.300 mg/kg 50 803056 MS 06-Mar-18 8021B Surrogate: 0.100 mg/kg 1 803026 MS 06-Mar-18 8021B 0301B 030205 <th< th=""><th></th><th>Reported: 3-Mar-18 16</th><th>1</th><th></th><th>3</th><th>- 17- 002 Allen</th><th></th><th>Project Num Project Mana</th><th></th><th>ions</th><th>Safety & Environmental Solutio 703 East Clinton Hobbs NM, 88240</th></th<> | | Reported: 3-Mar-18 16 | 1 | | 3 | - 17- 002 Allen | | Project Num Project Mana | | ions | Safety & Environmental Solutio 703 East Clinton Hobbs NM, 88240 |
|---|-------|--------------------------|------------|---------|---------|--------------------|-------------|-----------------------------|------|------------|---|
| Analyte Result MDL Limit Units Dilution Batch Analyst Analyzed Method Cardinal Laboratories Volatile Organic Compounds by EPA Method 8021 Benzene* <0.050 0.050 mg/kg 50 8030506 MS 06-Mar-18 8021B Toluene* <0.050 0.050 mg/kg 50 8030506 MS 06-Mar-18 8021B Ethylbenzene* <0.050 0.050 mg/kg 50 8030506 MS 06-Mar-18 8021B Total Xylenes* <0.150 0.150 mg/kg 50 8030506 MS 06-Mar-18 8021B Total Spense* <0.300 0.300 mg/kg 50 8030506 MS 06-Mar-18 8021B Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 72-148 8030506 MS 06-Mar-18 8015B DRO >C10-C28* <10.0 10.0 mg/kg 1 8030205 MS 03-Mar-18 8015B <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<> | | | | | | | | | | | |
| Volatile Organic Compounds by EPA Method 8021 Benzene* <0.050 mg/kg 50 8030506 MS 06-Mar-18 8021B Toluene* <0.050 mg/kg 50 8030506 MS 06-Mar-18 8021B Ethylbenzene* <0.050 mg/kg 50 8030506 MS 06-Mar-18 8021B Total Xylenes* <0.050 mg/kg 50 8030506 MS 06-Mar-18 8021B Total Xylenes* <0.150 0.150 mg/kg 50 8030506 MS 06-Mar-18 8021B Total Sylenes* <0.300 mg/kg 50 8030506 MS 06-Mar-18 8021B Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 72-148 8030506 MS 06-Mar-18 8021B GRO C6-C10* 10.0 mg/kg 1 8030205 MS 03-Mar-18 8015B DRO >C10-C28* <10.0 10.0 mg/kg 1 8030205 MS 03-Mar-18 8015B <th>Notes</th> <th>Method</th> <th>Analyzed</th> <th>Analyst</th> <th>Batch</th> <th>Dilution</th> <th>Units</th> <th>Reporting Limit</th> <th>MDL</th> <th>Result</th> <th>Analyte</th> | Notes | Method | Analyzed | Analyst | Batch | Dilution | Units | Reporting Limit | MDL | Result | Analyte |
| Benzene* <0.050 mg/kg 50 8030506 MS 06-Mar-18 8021B Toluene* <0.050 | | | | | | ries | l Laborato | Cardina | | | |
| Benzene* <0.050 mg/kg 50 8030506 MS 06-Mar-18 8021B Toluene* <0.050 | | | | | | | | | 8021 | EPA Method | Volatile Organic Compounds by |
| Ethylbenzene* <0.050 | | 8021B | 06-Mar-18 | MS | 8030506 | 50 | mg/kg | 0.050 | | | |
| Total Xylenes* <0.150 0.150 mg/kg 50 8030506 MS 06-Mar-18 8021B Total BTEX <0.300 | | 8021B | 06-Mar-18 | MS | 8030506 | 50 | mg/kg | 0.050 | | < 0.050 | Foluene* |
| Total BTEX <0.300 ng/kg 50 8030506 MS 06-Mar-18 8021B Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 72-148 8030506 MS 06-Mar-18 8021B Petroleum Hydrocarbons by GC FID 91.3 % 72-148 8030205 MS 03-Mar-18 8015B GRO C6-C10* 10.0 mg/kg 1 8030205 MS 03-Mar-18 8015B DRO >C10-C28* <10.0 | | 8021B | 06-Mar-18 | MS | 8030506 | 50 | mg/kg | 0.050 | | < 0.050 | Ethylbenzene* |
| Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 72-148 8030506 MS 06-Mar-18 8021B Petroleum Hydrocarbons by GC FID GRO C6-C10* 10.0 mg/kg 1 8030205 MS 03-Mar-18 8015B DRO >C10-C28* <10.0 | | 8021B | 06-Mar-18 | MS | 8030506 | 50 | mg/kg | 0.150 | | < 0.150 | Total Xylenes* |
| Petroleum Hydrocarbons by GC FID GRO C6-C10* <10.0 | | 8021B | 06-Mar-18 | MS | 8030506 | 50 | mg/kg | 0.300 | | < 0.300 | Total BTEX |
| GRO C6-C10* <10.0 | | 8021B | 06-Mar-18 | MS | 8030506 | 48 | 72-1 | 91.3 % | | | Surrogate: 4-Bromofluorobenzene (PID) |
| DRO > C10-C28* <10.0 | | | | | | | | | | C FID | Petroleum Hydrocarbons by GC |
| EXT DRO >C28-C36 <10.0 10.0 mg/kg 1 8030205 MS 03-Mar-18 8015B Surrogate: 1-Chlorooctane 94.7 % 41-142 8030205 MS 03-Mar-18 8015B Surrogate: 1-Chlorooctadecane 83.5 % 37.6-147 8030205 MS 03-Mar-18 8015B | | 8015B | 03-Mar-18 | MS | 8030205 | 1 | mg/kg | 10.0 | | <10.0 | GRO C6-C10* |
| Surrogate: 1-Chlorooctane 94.7 % 41-142 8030205 MS 03-Mar-18 8015B Surrogate: 1-Chlorooctadecane 83.5 % 37.6-147 8030205 MS 03-Mar-18 8015B | | 8015B | 03-Mar-18 | MS | 8030205 | 1 | mg/kg | 10.0 | | <10.0 | DRO >C10-C28* |
| Surrogate: 1-Chlorooctadecane 83.5 % 37.6-147 8030205 MS 03-Mar-18 8015B | | 8015B | 03-Mar-18 | MS | 8030205 | 1 | mg/kg | 10.0 | | <10.0 | EXT DRO >C28-C36 |
| | | 8015B | 03-Mar-18 | MS | 8030205 | 42 | 41-1 | 94.7 % | | | Surrogate: 1-Chlorooctane |
| Green Analytical Laboratories | | 8015B | 03-Mar-18 | MS | 8030205 | 47 | 37.6- | 83.5 % | | | Surrogate: 1-Chlorooctadecane |
| | | | | | | ratories | vtical Labo | Green Analy | | | |
| Soluble (DI Water Extraction) | | ED4 200 C | 07.14 10 | ID 4 | D002020 | 10 | л . | 10.0 | | 10.0 | |
| Chloride <10.0 10.0 mg/kg wet 10 B803030 JDA 07-Mar-18 EPA300.0 |) | EPA300.0 | 0'/-Mar-18 | JDA | B803030 | 10 | mg/kg wet | 10.0 | | <10.0 | Chloride |

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| Safety & Environmental Solutic 703 East Clinton Hobbs NM, 88240 | ons | | Project Nun Project Mana | | - 17- 002 Allen | | | 1 | Reported: 3-Mar-18 16: | 24 |
|---|------------|------|-----------------------------|------------------------|--------------------|---------|---------|-----------|---------------------------|-------|
| | | | | 5 4' NOR 619-06 (So | | | | | | |
| 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 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 91.6 % | 72- | 148 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 96.6 % | 41- | 142 | 8030205 | MS | 03-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 84.8 % | 37.6 | -147 | 8030205 | MS | 03-Mar-18 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) | | | | | | | | | | |
| Chloride | 44.1 | | 10.0 | mg/kg wet | 10 | B803030 | JDA | 07-Mar-18 | EPA300.0 | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| Safety & Environmental Solu 703 East Clinton Hobbs NM, 88240 | utions | Project: TER -17-002 Project Number: TER - 17- 002 Project Manager: Bob Allen Fax To: (575) 393-4388 | | | | | | Reported: 13-Mar-18 16:24 | | |
|--|--------------|---|--------------------|------------------------|-----------|---------|---------|------------------------------|----------|-------|
| | | | SP -17 SU H800 | RFACE \$ 619-07 (So | | | | | | |
| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
| | | | Cardina | al Laborat | ories | | | | | |
| Volatile Organic Compounds b | y EPA Method | 8021 | | | | | | | | |
| Benzene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 92.8 % | 72- | 148 | 8030506 | MS | 06-Mar-18 | 8021B | |
| Petroleum Hydrocarbons by G | C FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 97.4 % | 41- | 142 | 8030205 | MS | 03-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 86.9 % | 37.6 | -147 | 8030205 | MS | 03-Mar-18 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| Soluble (DI Water Extraction) Chloride | <10.0 | | 10.0 | mg/kg wet | 10 | B803030 | JDA | 07-Mar-18 | EPA300.0 | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| Safety & Environmental Soluti 703 East Clinton Hobbs NM, 88240 | ons | Project: TER -17-002 Project Number: TER - 17- 002 Project Manager: Bob Allen Fax To: (575) 393-4388 | | | | | | Reported: 13-Mar-18 16:24 | | |
|--|------------|---|--------------------|------------------------|-----------|---------|---------|------------------------------|----------|-------|
| | | | | 2.5' SOU 619-08 (So | | | | | | |
| 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 | 8030704 | MS | 07-Mar-18 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030704 | MS | 07-Mar-18 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030704 | MS | 07-Mar-18 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 8030704 | MS | 07-Mar-18 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 8030704 | MS | 07-Mar-18 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 91.7 % | 72-1 | 48 | 8030704 | MS | 07-Mar-18 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 95.9 % | 41-1 | 42 | 8030205 | MS | 03-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 81.9 % | 37.6- | 147 | 8030205 | MS | 03-Mar-18 | 8015B | |
| | | | Green Anal | ytical Labo | oratories | | | | | |
| Soluble (DI Water Extraction) Chloride | <10.0 | | 10.0 | mg/kg wet | 10 | B803030 | JDA | 07-Mar-18 | EPA300.0 | |
| | | | - • • • | | | | | | | |
| | | | | | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| Safety & Environmental Solutic 703 East Clinton Hobbs NM, 88240 | ns Project: TER -17-002 Project Number: TER - 17- 002 Project Manager: Bob Allen Fax To: (575) 393-4388 | | | | | | Reported: 13-Mar-18 16:24 | | | |
|---|--|------|--------------------|------------------------|-----------|---------|------------------------------|-----------|----------|-------|
| | | | | 7 4' SOU 619-09 (So | | | | | | |
| 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 | 8030704 | MS | 07-Mar-18 | 8021B | |
| Toluene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030704 | MS | 07-Mar-18 | 8021B | |
| Ethylbenzene* | < 0.050 | | 0.050 | mg/kg | 50 | 8030704 | MS | 07-Mar-18 | 8021B | |
| Total Xylenes* | < 0.150 | | 0.150 | mg/kg | 50 | 8030704 | MS | 07-Mar-18 | 8021B | |
| Total BTEX | < 0.300 | | 0.300 | mg/kg | 50 | 8030704 | MS | 07-Mar-18 | 8021B | |
| Surrogate: 4-Bromofluorobenzene (PID) | | | 91.2 % | 72- | 148 | 8030704 | MS | 07-Mar-18 | 8021B | |
| Petroleum Hydrocarbons by GC | FID | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 8030205 | MS | 03-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctane | | | 91.3 % | 41- | 142 | 8030205 | MS | 03-Mar-18 | 8015B | |
| Surrogate: 1-Chlorooctadecane | | | 76.5 % | 37.6 | -147 | 8030205 | MS | 03-Mar-18 | 8015B | |
| | | | Green Anal | ytical Lab | oratories | | | | | |
| <u>Soluble (DI Water Extraction)</u> Chloride | 48.6 | | 10.0 | mg/kg wet | 10 | B803030 | JDA | 07-Mar-18 | EPA300.0 | |
| | | | | | | | | | | |
| | | | | | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



| Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240 | Project: TE Project Number: TE Project Manager: Bc | ER - 17- 002 | Reported: 13-Mar-18 16:24 |
|---|--|---------------|------------------------------|
| | Fax To: (5 | 575) 393-4388 | |

Volatile Organic Compounds by EPA Method 8021 - Quality Control

| | | Cardir | 1al Lab | oratories | | | | | | |
|---------------------------------------|--------|--------------------|---------|----------------|------------------|-----------|----------------|------|--------------|-------|
| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
| Batch 8030506 - Volatiles | | | | | | | | | | |
| Blank (8030506-BLK1) | | | | Prepared & | Analyzed: | 05-Mar-18 | 3 | | | |
| 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) | 0.0911 | | mg/kg | 0.100 | | 91.1 | 72-148 | | | |
| LCS (8030506-BS1) | | | | Prepared & | Analyzed: | 05-Mar-18 | 3 | | | |
| Benzene | 2.10 | 0.050 | mg/kg | 2.00 | | 105 | 79.5-124 | | | |
| Toluene | 2.12 | 0.050 | mg/kg | 2.00 | | 106 | 75.5-127 | | | |
| Ethylbenzene | 2.18 | 0.050 | mg/kg | 2.00 | | 109 | 77.7-125 | | | |
| Total Xylenes | 6.69 | 0.150 | mg/kg | 6.00 | | 112 | 70.9-124 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0917 | | mg/kg | 0.100 | | 91.7 | 72-148 | | | |
| LCS Dup (8030506-BSD1) | | | | Prepared & | Analyzed: | 05-Mar-18 | 3 | | | |
| Benzene | 2.17 | 0.050 | mg/kg | 2.00 | | 108 | 79.5-124 | 3.17 | 6.5 | |
| Toluene | 2.19 | 0.050 | mg/kg | 2.00 | | 110 | 75.5-127 | 3.54 | 7.02 | |
| Ethylbenzene | 2.22 | 0.050 | mg/kg | 2.00 | | 111 | 77.7-125 | 1.80 | 7.83 | |
| Total Xylenes | 6.81 | 0.150 | mg/kg | 6.00 | | 114 | 70.9-124 | 1.77 | 7.78 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0902 | | mg/kg | 0.100 | | 90.2 | 72-148 | | | |

Batch 8030704 - Volatiles

| Blank (8030704-BLK1) | | | | Prepared & Analy | zed: 07-Mar-18 | | |
|---------------------------------------|--------|-------|-------|------------------|----------------|--------|--|
| 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) | 0.0914 | | mg/kg | 0.100 | 91.4 | 72-148 | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| 703 Eas | k Environmental Solutions t Clinton IM, 88240 | Project: Project Number: Project Manager: | | Reported: 13-Mar-18 16:24 |
|---------|---|---|----------------|------------------------------|
| | 11, 002 1 0 | , , | (575) 393-4388 | |

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 8030704 - Volatiles | | | | | | | | | | |
| LCS (8030704-BS1) | | | | Prepared & | Analyzed: | 07-Mar-18 | 8 | | | |
| Benzene | 1.96 | 0.050 | mg/kg | 2.00 | | 98.0 | 79.5-124 | | | |
| Toluene | 1.94 | 0.050 | mg/kg | 2.00 | | 97.1 | 75.5-127 | | | |
| Ethylbenzene | 1.91 | 0.050 | mg/kg | 2.00 | | 95.5 | 77.7-125 | | | |
| Total Xylenes | 5.84 | 0.150 | mg/kg | 6.00 | | 97.3 | 70.9-124 | | | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0896 | | mg/kg | 0.100 | | 89.6 | 72-148 | | | |
| LCS Dup (8030704-BSD1) | | | | Prepared & | Analyzed: | 07-Mar-18 | 8 | | | |
| Benzene | 1.94 | 0.050 | mg/kg | 2.00 | | 97.0 | 79.5-124 | 1.01 | 6.5 | |
| Toluene | 1.93 | 0.050 | mg/kg | 2.00 | | 96.4 | 75.5-127 | 0.734 | 7.02 | |
| Ethylbenzene | 1.91 | 0.050 | mg/kg | 2.00 | | 95.6 | 77.7-125 | 0.0946 | 7.83 | |
| Total Xylenes | 5.82 | 0.150 | mg/kg | 6.00 | | 97.0 | 70.9-124 | 0.287 | 7.78 | |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0898 | | mg/kg | 0.100 | | 89.8 | 72-148 | | | |

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



| Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240 | Project: TER -17-002 Project Number: TER - 17- 002 Project Manager: Bob Allen | Reported: 13-Mar-18 16:24 |
|---|---|------------------------------|
| | Fax To: (575) 393-4388 | |

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-------|----------------|--------------------|-------------|----------------------------|-------|--------------|-------|
| Batch 8030203 - General Prep - Organics | | | | | | , | | | | |
| Blank (8030203-BLK1) | | | | Prepared (|)2-Mar-18 A | analyzed: (|)5-Mar-18 | | | |
| GRO C6-C10 | ND | 10.0 | mg/kg | i iopuiou. | <u>2 101ul 101</u> | maryzea. (| <i>i i i i i i i i i i</i> | | | |
| 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 | 57.7 | | mg/kg | 50.0 | | 115 | 41-142 | | | |
| Surrogate: 1-Chlorooctadecane | 53.7 | | mg/kg | 50.0 | | 107 | 37.6-147 | | | |
| LCS (8030203-BS1) | | | | Prepared: (| 02-Mar-18 A | Analyzed: (|)5-Mar-18 | | | |
| GRO C6-C10 | 238 | 10.0 | mg/kg | 200 | | 119 | 76.5-133 | | | |
| DRO >C10-C28 | 197 | 10.0 | mg/kg | 200 | | 98.6 | 72.9-138 | | | |
| Total TPH C6-C28 | 435 | 10.0 | mg/kg | 400 | | 109 | 78-132 | | | |
| Surrogate: 1-Chlorooctane | 54.8 | | mg/kg | 50.0 | | 110 | 41-142 | | | |
| Surrogate: 1-Chlorooctadecane | 50.7 | | mg/kg | 50.0 | | 101 | 37.6-147 | | | |
| LCS Dup (8030203-BSD1) | | | | Prepared: (| 02-Mar-18 A | Analyzed: (|)5-Mar-18 | | | |
| GRO C6-C10 | 245 | 10.0 | mg/kg | 200 | | 122 | 76.5-133 | 2.67 | 20.6 | |
| DRO >C10-C28 | 194 | 10.0 | mg/kg | 200 | | 96.8 | 72.9-138 | 1.85 | 20.6 | |
| Total TPH C6-C28 | 438 | 10.0 | mg/kg | 400 | | 110 | 78-132 | 0.650 | 18 | |
| Surrogate: 1-Chlorooctane | 51.5 | | mg/kg | 50.0 | | 103 | 41-142 | | | |
| 0 | 48.2 | | mg/kg | 50.0 | | 96.5 | 37.6-147 | | | |

| Blank (8030205-BLK1) | | | | Prepared & Analy | yzed: 02-Mar-18 | 3 | | |
|-------------------------------|------|------|-------|------------------|-----------------|----------|------|--|
| 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 | 52.0 | | mg/kg | 50.0 | 104 | 41-142 | | |
| Surrogate: 1-Chlorooctadecane | 49.0 | | mg/kg | 50.0 | 98.1 | 37.6-147 | | |
| | | | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | Safety & Environmental Solutions 703 East Clinton | Project: TER -: Project Number: TER - | 17- 002 | Reported: 13-Mar-18 16:24 |
|---|--|--|----------|------------------------------|
| I | Hobbs NM, 88240 | Project Manager: Bob A | llen | |
| | | Fax To: (575) | 393-4388 | |

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 |
| Batch 8030205 - General Prep - Organics | | | | | | | | | | |
| LCS (8030205-BS1) | | | | Prepared & | Analyzed: | 02-Mar-18 | 8 | | | |
| GRO C6-C10 | 200 | 10.0 | mg/kg | 200 | | 99.8 | 76.5-133 | | | |
| DRO >C10-C28 | 191 | 10.0 | mg/kg | 200 | | 95.6 | 72.9-138 | | | |
| Total TPH C6-C28 | 391 | 10.0 | mg/kg | 400 | | 97.7 | 78-132 | | | |
| Surrogate: 1-Chlorooctane | 52.6 | | mg/kg | 50.0 | | 105 | 41-142 | | | |
| Surrogate: 1-Chlorooctadecane | 49.2 | | mg/kg | 50.0 | | 98.3 | 37.6-147 | | | |
| LCS Dup (8030205-BSD1) | | | | Prepared & | Analyzed: | 02-Mar-18 | 3 | | | |
| GRO C6-C10 | 207 | 10.0 | mg/kg | 200 | | 104 | 76.5-133 | 3.71 | 20.6 | |
| DRO >C10-C28 | 199 | 10.0 | mg/kg | 200 | | 99.6 | 72.9-138 | 4.12 | 20.6 | |
| Total TPH C6-C28 | 406 | 10.0 | mg/kg | 400 | | 102 | 78-132 | 3.91 | 18 | |
| Surrogate: 1-Chlorooctane | 49.6 | | mg/kg | 50.0 | | <i>99.2</i> | 41-142 | | | |
| Surrogate: 1-Chlorooctadecane | 46.7 | | mg/kg | 50.0 | | 93.5 | 37.6-147 | | | |

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Celey D. Keene, Lab Director/Quality Manager



| 703 East Clinton Project Number: TER - 17-002 13-Mar-18 16:24 Hobbs NM, 88240 Project Manager: Bob Allen Fax To: (575) 393-4388 | | Project Manager: Bob Allen | Reported: 13-Mar-18 16:24 |
|---|--|----------------------------|------------------------------|
|---|--|----------------------------|------------------------------|

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-----------|----------------|------------------|-------------|----------------|--------|--------------|-------|
| Batch B803030 - General Prep - Wet Chem | | | | | | | | | | |
| Blank (B803030-BLK1) | | | | Prepared: (| 6-Mar-18 A | Analyzed: 0 | 7-Mar-18 | | | |
| Chloride | ND | 10.0 | mg/kg wet | | | | | | | |
| LCS (B803030-BS1) | | | | Prepared: (| 6-Mar-18 A | Analyzed: 0 | 7-Mar-18 | | | |
| Chloride | 236 | 10.0 | mg/kg wet | 250 | | 94.4 | 85-115 | | | |
| LCS Dup (B803030-BSD1) | | | | Prepared: (| 6-Mar-18 A | Analyzed: 0 | 7-Mar-18 | | | |
| Chloride | 236 | 10.0 | mg/kg wet | 250 | | 94.5 | 85-115 | 0.0974 | 20 | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

 **
 Samples not received at proper temperature of 6°C or below.

 Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
 Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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|---|------------------|--|--|------------|---------------|-----------------|-------------|----------|----------------|-------|---------|-------------|---------|--|-------------------|--------------------|---------------|-------------------|---------------|--------------------------|----------------|----------------|----------------|---------|---------------------------------------|--|---------------------------------------|----------|-----|---|
| e) 5.82 er:Conucted S.75c | 1000 | tentation consequental damages, including without line the performance of services hereunder by Cardinal, te Date: Recc | Danages. Cardinal's liability and client's exclusive remedy for any claim arising whether based three for nonlinence and any other cause whatsoever shall be deemed welved unless made in the second s | AT SOUTH S | 2,5, 50.011 G | Jugar South 2 1 | CAR AND SIL | | Turton North C | 17 11 | 2577 91 | Sinfrom [9] | | Sample I.D. | . (C)OM | Ρ. | | | |) Z Project Owner: | () Fax #: | State: NM Zip: | CINADA | . 308 | + Contractor tol | 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 | | ratories | | 0 |
| Sample Condition CHECKED BY Cool Intact (Initials) Pres Yes 70, H | Bungera (Lu | starayees. In one work shall Cardinal to label for indential or consequential damages, including without limitation, business interruptions, boss of use, or loss of profits incurred by client. Its subsidiaries, services, I no events shall Cardinal to label for indential or consequential damages, including without limitation, business interruptions, boss of use, or loss of profits incurred by client. Its subsidiaries, services, I no events shall Cardinal to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Fax Result: F | arising whether based in contract or tort, shall be firnited to the amount paid by the client for the waived unless made in writing and received by Cardinal within 30 days after completion of the applica | | | 6 | 6 | <u>б</u> | | × | x | | | il Ludge Ther : Cid/base E / Coo Ther : | TER - - | MATRIX PRESERV SAM | Fax #: | Phone #: | State: Zip: | City: | Address: | 88 240 Attn: | Company: | P.O. #: | · · · · · · · · · · · · · · · · · · · | | | | | |
| | REMARKS: | aled reasons or otherwise. Phone Result: Yes No Add'I Phone #: Fax Result: Yes No Add'I Fax #: | unt paid by the client for the applicable agent of the completion of the applicable of the second | | | | | | | | | | | | 14 Ex sound | G a | | 3 | | >>> | | | | | | | CHAIN-OF-CUSTODY AND ANALYSIS REQUESI | | | |

Page 18 of 18

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Appendix D Site Photos















Terra Oilfield Services-Biliken Release #2

Excavation Photos: 3-5-2018



































Terra Oilfield Services-Biliken Release #2

Liner Photos: 3-5-2018

























































Terra Oilfield Services-Biliken Release #2

Backfill Photos: 3-5-2018



















































