Form C-141 Page 6

State of New Mexico Oil Conservation Division

| Incident ID | nAPP2107450435 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

| Closure Report Attachment Checklist: Each of the following items must be included in the closure report. | | |
|--|--|--|
| X A scaled site and sampling diagram as described in 19.15.29.11 NMAC | | |
| Note: appropriate OCD District office must be notified 2 days prior to liner inspection) | | |
| X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) | | |
| X Description of remediation activities | | |
| | | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Bob Hall Title: Environmental Manager Signature: Date: 8/24/202/ | | |
| | | |
| email: <u>bhall@btaoil.com</u> Telephone: <u>432-682-3753</u> | | |
| | | |
| OCD Only | | |
| Received by: Robert Hamlet Date: 1/7/2022 | | |
| Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. | | |
| Closure Approved by: Robert Hamlet Date: 1/7/2022 | | |
| Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced | | |



June 9, 2021 Vertex Project #: 21E-01340-001

Spill Closure Report: RGA #3

Unit M, Section 14, Township 23 South, Range 28 East

County: Eddy API: 30-015-26331

Tracking Number: nAPP2107450435

Prepared For: BTA Oil Producers, LLC

104 South Pecos St Midland, TX 79701

New Mexico Oil Conservation Division - District 2 - Artesia

811 South First Street Artesia, New Mexico 88210

BTA Oil Producers, LLC (BTA) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for a spill that occurred on the pad from a well stuffing box failure with RGA #3, API 30-015-26331 (hereafter referred to as ("RGA"). BTA provided notification of the spill to New Mexico Oil Conservation Division (NMOCD) District 1, and Uffie Land Company, who owns the property, on March 15, 2021, via an initial C-141 Release Notification (Attachment 1). The NMOCD tracking number assigned to this incident is nAPP2107450435.

This letter provides a description of the spill assessment and remediation activities, and demonstrates that closure criteria established in 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) have been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release.

Incident Description

On March 15, 2021, a release occurred on the pad when a stuffing box failure occurred. This incident resulted in the release of 6 barrels (bbls) of oil and 10 bbls of produced water. The fluid sprayed into the adjacent field with most of the contamination within the boundaries of the engineered pad. No oil or produced water was released into undisturbed areas or waterways. A vacuum truck was dispatched to location and approximately 4 bbls of oil and 7 bbls of produced water were recovered.

Site Characterization

The release at RGA occurred on private land, N 32.30021, W -104.06409, approximately 2 miles northeast of Loving, New Mexico. The legal description for the site is Unit M, Section 14, Township 23 South, Range 28 East, Eddy County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and rangeland. An aerial photograph and site schematic are included in Attachment 3.

RGA is typical of oil and gas exploration and production sites in the western portion of the Permian Basin, and is currently vertex.ca

2021 Spill Assessment and Closure May 2021

used for oil and gas production.

The surrounding landscape is associated with alluvial fans, fan remnants, and ridges at elevations of 1,100 to 5,300 feet above sea level. The climate is semi-arid, with average annual precipitation ranging between 7 and 15 inches. Historically, the plant community has been predominantly black grama, dropseeds, threeawns that include soaptree yucca, ephedra, fourwing saltgrass, and forbs such as broom snakeweed, prickly pear, croton, and desert marigold. Litter is small and movement is minimal (United States Department of Agriculture, Natural Resources Conservation Service, 2020). Limited to no vegetation is allowed to grow on the compacted wellpad.

The Geological Map of New Mexico indicates the surface geology at RGA is comprised primarily of Qa – Alluvium from Holocene to upper Pleistoscene. (New Mexico Bureau of Geology and Mineral Resources, 2020). The National Resource Conservation Service Web Soil Survey characterizes the soil at the site as Reagan loam and Upton soils, characterized by loam to gravelly loam. It tends to be well-drained with low to medium runoff and very low to moderate available moisture levels in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2020). There is medium potential for karst geology to be present near RGA (United States Department of the Interior, Bureau of Land Management, 2020).

There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is the Pecos River located approximately 0.92 miles east of RGA (Google Earth Pro 2021). There are no continuously flowing watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest active well to the site is a United States Geological Survey (USGS)-identified well from 2003, located approximately 0.64 miles to the south. Depth to groundwater at this well is 48 feet below ground surface (bgs). There are no active wells within the 0.5-mile radius of the site. Documentation pertaining to site characterization and depth to groundwater determination is included in Attachment 3.

Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Attachment 2) was completed to determine if the release was subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Based on data included in the closure criteria determination worksheet, the release at RGA is not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC and the closure criteria for the site are determined to be associated with the following constituent concentration limits.

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2021 Spill Assessment and Closure May 2021

| Table 1. Closure Criteria for Soils Impacted by a Release | | | |
|---|-------------------|-----------|--|
| Depth to Groundwater | Constituent | Limit | |
| < 50 feet | Chloride | 600 mg/kg | |
| | TPH ¹ | 100 mg/kg | |
| | (GRO + DRO + MRO) | 100 mg/kg | |
| | BTEX ² | 50 mg/kg | |
| | Benzene | 10 mg/kg | |

¹Total petroleum hydrocarbons (TPH) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

Remedial Actions

An initial spill inspection, completed on April 23, 2021, identified and mapped the boundaries of the potential release area. The release area was determined to be approximately 25 feet long and 17 feet wide; the total affected area was determined to be approximately 504 square feet as shown in Figure 1 (Attachment 3). BTA previously scraped the release area and vertical and horizontal samples were collected throughout the area to determine the extents of the remaining contaminated area. The Daily Field Report (DFR) associated with the initial spill inspection is included in Attachment 4.

On April 26, 2021, Vertex provided 48-hour notification of confirmation sampling to NMOCD, as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC (Attachment 5). Vertex was onsite at RGA on April 28, 2021, collected a total of six five-point composite confirmatory samples from the area. Base samples and sidewall samples were collected from within the area of excavation, samples were taken at the max depth of "2" ft bgs. Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NMOCD approval. The composite samples were placed into laboratory-provided containers, preserved on ice and submitted to a National Environmental Laboratory Accreditation Program-approved laboratory for chemical analysis.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Characterization sample field screen and analytical data and final confirmatory sample analytical data are summarized in Table 2 and Table 3, respectively (Attachment 6). Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system (GPS) unit, or equivalent, was used to map the approximate center of each of the five-point composite samples. The confirmatory sample locations are presented on Figure 2 (Attachment 3).

Closure Request

Vertex recommends no additional remediation action to address the release at RGA. Laboratory analyses of the confirmatory samples showed constituent of concern concentration levels below NMOCD Closure Criteria for areas where depth to groundwater is less than 50 feet bgs as shown in Table 1. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

Vertex requests that this incident be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC

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²Benzene, toluene, ethylbenzene and xylenes (BTEX

2021 Spill Assessment and Closure May 2021

have been met. BTA certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the March 15, 2021 release at RGA.

Should you have any questions or concerns, please do not hesitate to contact me at 575.361.9880 or mpeppin@vertex.ca.

Sincerely,

Monica Peppin PROJECT MANAGER

Attachments

Attachment 1. NMOCD C-141 Report

Attachment 2. Closure Criteria for Soils Impacted by a Release Research Determination Documentation

Attachment 3. Initial and Confirmatory Site Schematics
Attachment 4. Daily Field Report(s) with Photographs

Attachment 5. Required 48-hr Notification of Confirmation Sampling to Regulatory Agencies

Attachment 6. Initial and Confirmatory Lab Data Tables
Attachment 7. Lab Reports and Chain of Custody's (COC's)

2021 Spill Assessment and Closure May 2021

References

- New Mexico Bureau of Geology and Mineral Resources. (2020). *Interactive Geologic Map.* Retrieved from http://geoinfo.nmt.edu
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases.* Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2020). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- United States Department of the Interior, Bureau of Land Management. (2020). *New Mexico Cave/Karsts*. Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico
- United States Department of the Interior, United States Geological Survey. (2020). *Groundwater for New Mexico: Water Levels*. Retrieved from https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?
- United States Fish and Wildlife. (2020). *National Wetlands Inventory*. Retrieved from https://www.fws.gov/wetlands/Data/Mapper.html

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2021 Spill Assessment and Closure May 2021

Limitations

This report has been prepared for the sole benefit of BTA Oil Producer, LLC (BTA). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and BTA. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

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ATTACHMENT 1

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office Received by OCD: 8/26/2021 12:38:53 PM

| Incident ID | nAPP2107450435 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party: BTA Oil Producers, LLC | OGRID: 260297 |
|--|---------------------------------|
| Contact Name: Bob Hall | Contact Telephone: 432-682-3753 |
| Contact email: bhall@btaoil.com | Incident # (assigned by OCD) |
| Contact mailing address: 104 S. Pecos St., Midland, TX 79701 | |

Location of Release Source

Latitude: 32.30021 Longitude: -104.06409

(NAD 83 in decimal degrees to 5 decimal places)

| Site Name: RGA #3 | Site Type: Well Site |
|------------------------------------|---|
| Date Release Discovered: 3/15/2021 | API# (if applicable) Nearest well: RGA #3 API #30-015-26331 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| M | 14 | 23S | 28E | Eddy |

Surface Owner:

State Federal Tribal Private (Name: Uffie Land Company)

Nature and Volume of Release

| | al(s) Released (Select all that apply and attach calculations or specif | |
|-----------------------|--|---|
| Crude Oil | Volume Released (bbls) 6 BBL | Volume Recovered (bbls) 4 BBL |
| Produced Water | Volume Released (bbls) 10 BBL | Volume Recovered (bbls) 7 BBL |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☐ Yes ☐ No |
| Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |
| Cause of Release | 1 | |
| Stuffing Box Failure. | | |
| Spill onto pad immed | diately around the wellhead and off-pad tow | ard a pipeline ROW. High winds also sprayed |

oil onto farmer's alfalfa field.

(See attached spill calculation spreadsheet.)

| Released to Imagin | orm C-141 |
|--------------------|--|
| ing: 1/7/202 | Was this a major release as defined 19.15.29.7(A) NM |
| 2022 | ☐ Yes ⊠ No |

State of New Mexico Oil Conservation Division

| In although ID | nAPP2107450435 | Rea |
|-----------------------|----------------|----------------------------|
| Incident ID | nAPP2107430435 | ce |
| District RP | | ve |
| Facility ID | | Received by |
| Application ID | | |
| | | OCD: 8/26/2021 12:38:53 PM |
| this a major release? | | ∞ ∞ |
| | | 26/ |
| | | 202 |
| | | |
| | | 12: |
| | | 38 |
| | | :53 |
| hat means (phone, o | email atc)? | |
| mai means (phone, e | man, ewi | |

| release as defined by 19.15.29.7(A) NMAC? | | |
|--|--|--|
| ☐ Yes ⊠ No | | |
| | | |
| If YES, was immediate notic | te given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |
| | | |
| | Initial Response | |
| The responsible party | y must undertake the following actions immediately unless they could create a safety hazard that would result in injury | |
| ☐ The source of the release | e has been stopped. | |
| The impacted area has be | een secured to protect human health and the environment. | |
| Released materials have | been contained via the use of berms or dikes, absorbent pads, or other containment devices. | |
| All free liquids and recov | verable materials have been removed and managed appropriately. | |
| If all the actions described ab | pove have <u>not</u> been undertaken, explain why: | |
| D. 10 15 20 2 D. (1) NV (4.6 | | |
| has begun, please attach a na | the responsible party may commence remediation immediately after discovery of a release. If remediation arrative of actions to date. If remedial efforts have been successfully completed or if the release occurred rea (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. | | |
| Printed Name: Bob Hall | Title: Environmental Manager | |
| Signature: Bl | Half Date: 3/15/2021 | |
| email: bhall@btaoil.com | Telephone: 432-682-3753 | |
| OCD Only | | |
| Received by: | Date: | |

If YES, for what reason(s) does the responsible party consider this a major release?

of New Mexico

| Incident ID | nAPP2107450435 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

 $This information \ must \ be \ provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

| What is the shallowest depth to groundwater beneath the area affected by the release? | <50 (ft bgs) | | | | |
|---|-----------------------|--|--|--|--|
| Did this release impact groundwater or surface water? | ☐ Yes X No | | | | |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ☒ No | | | | |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ☒ No | | | | |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☒ No | | | | |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes X No | | | | |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes X No | | | | |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☒ No | | | | |
| Are the lateral extents of the release within 300 feet of a wetland? | Yes X No | | | | |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☒ No | | | | |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ☒ No | | | | |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☒ No | | | | |
| Did the release impact areas not on an exploration, development, production, or storage site? | ☐ Yes ☒ No | | | | |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | tical extents of soil | | | | |
| Characterization Report Checklist: Each of the following items must be included in the report. | | | | | |
| Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. | | | | | |
| X Field data X Data table of soil contaminant concentration data | | | | | |
| X Depth to water determination | | | | | |
| \overline{X} Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release \overline{X} Boring or excavation logs | | | | | |

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

X Photographs including date and GIS information

X Laboratory data including chain of custody

X Topographic/Aerial maps

Form C-141 Page 4

State of New Mexico Oil Conservation Division

| Incident ID | nAPP2107450435 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

| regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations. | ifications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In |
|---|--|
| Printed Name: Bob Hall | Title: Environmental Manager |
| Signature: Boltfell | Date: 8/24/2021 |
| email:bhall@btaoil.com | Telephone: 432-682-3753 |
| | |
| OCD Only | |
| Received by: | Date: |
| | |

Form C-141 Page 6

State of New Mexico Oil Conservation Division

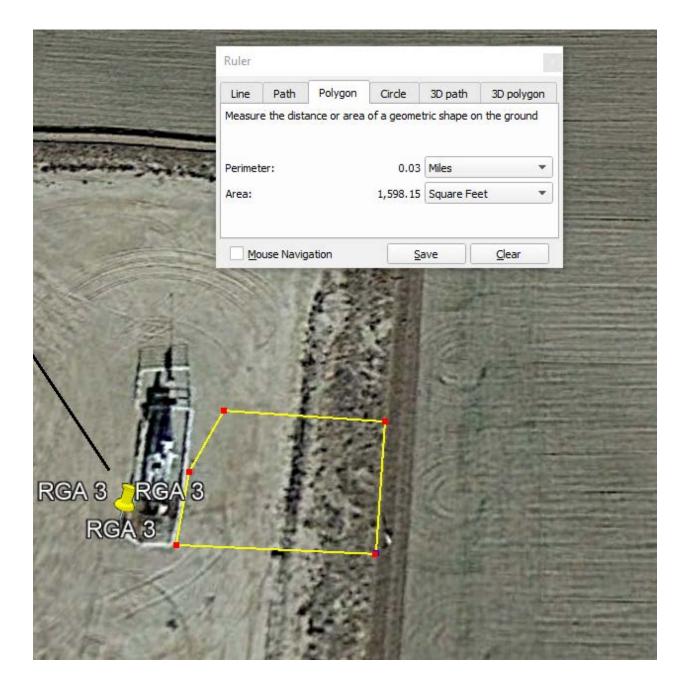
Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

| Incident ID | nAPP2107450435 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

| X A scaled site and sampling diagram as described in 19.15.29.11 NMAC | |
|---|---|
| Note that Photographs of the remediated site prior to backfill or photos of the line must be notified 2 days prior to liner inspection) | er integrity if applicable (Note: appropriate OCD District office |
| X Laboratory analyses of final sampling (Note: appropriate ODC District of | office must be notified 2 days prior to final sampling) |
| X Description of remediation activities | |
| | |
| Signature: Date: | otifications and perform corrective actions for releases which export by the OCD does not relieve the operator of liability intamination that pose a threat to groundwater, surface water, port does not relieve the operator of responsibility for exponsible party acknowledges they must substantially at existed prior to the release or their final land use in reclamation and re-vegetation are complete. Environmental Manager |
| OCD Only | |
| Received by: D | ate: |
| Closure approval by the OCD does not relieve the responsible party of liability remediate contamination that poses a threat to groundwater, surface water, hum party of compliance with any other federal, state, or local laws and/or regulation | an health, or the environment nor does not relieve the responsible |
| Closure Approved by: | Date: |
| Printed Name: | Title: |
| | |



Location RGA #3

| API # Spill Date | 3/15/2021 | |
|--|---|--|
| Spill Dimens | | |
| ENTER - Len | • | 40 feet |
| ENTER - Wid | · | 40 feet |
| ENTER - Sati | uration Depth of Spill | 1.5 inches |
| ENTER - Por | osity Factor | 0.15 decimal |
| Oil Cut - We | II Test / Vessel Throughput or Contents | |
| Oil | | 6 |
| Water | | 10 |
| Calculated C | Dil Cut | 0.375 |
| Volume Rec | overed in Truck / Containment | |
| ENTER - Rec | overed Oil | BBL |
| ENTER - Rec | overed Water | 0 BBL |
| Calculated \ | /alues | calculated |
| D-1 | | carculated |
| Release of C | oil in Soil - Unrecovered | 2 BBL |
| | oil in Soil - Unrecovered Vater in Soil - Unrecovered | |
| Release of V | | 2 BBL |
| Release of V | Vater in Soil - Unrecovered d Total Release | 2 <i>BBL</i> 3 <i>BBL</i> |
| Release of V Unrecovered | Vater in Soil - Unrecovered d Total Release Values | 2 <i>BBL</i> 3 <i>BBL</i> 5 <i>BBL</i> |
| Release of V Unrecovered | Vater in Soil - Unrecovered d Total Release Values e of Oil | 2 BBL 3 BBL 5 BBL |
| Release of V Unrecovered Calculated V Total Release | Vater in Soil - Unrecovered d Total Release Values e of Oil e of Water | 2 BBL 3 BBL 5 BBL calculated 2 BBL |

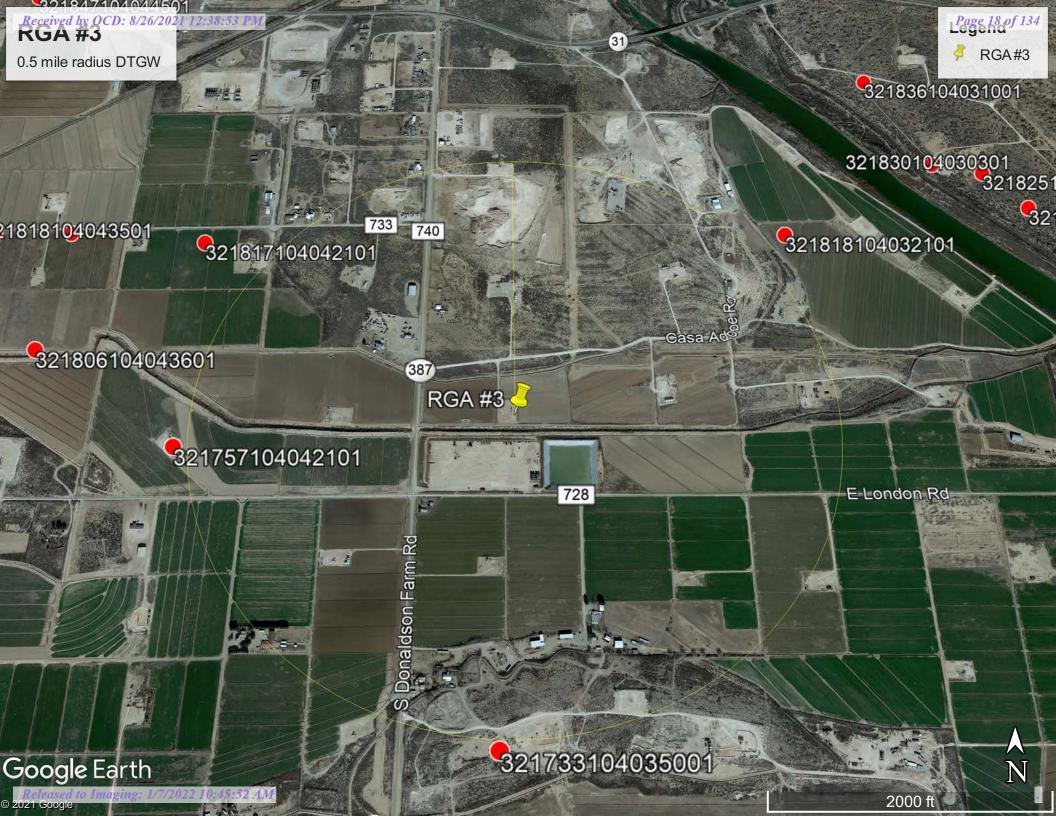
| Types of Soil | Porosity Factor |
|--------------------|-----------------|
| Gravel | 0.25 |
| Sand | 0.20 |
| Clay/silt/sand Mix | 0.15 |
| Clay | 0.05 |
| Caliche | 0.03 |
| Unknown | 0.25 |

(Length X Width X Depth X 1 ft/12 in) X Porosity
5.615 ft³ / BBL

X Oil Cut (or Water Cut)

ATTACHMENT 2

| pill Coo | rdinates: | X: 32.30021 | Y: -104.06409 |
|---|--|-----------------------------|------------------|
| | ific Conditions | Value | Unit |
| <u>.</u> | Depth to Groundwater | < 50 fe | |
| | Within 300 feet of any continuously flowing | | _ |
| 2 | watercourse or any other significant watercourse | 4,831 | feet |
| | Within 200 feet of any lakebed, sinkhole or playa lake | | |
| 3 | (measured from the ordinary high-water mark) | 10,548 | feet |
| | Within 300 feet from an occupied residence, school, | 4.456 | |
| 4 | hospital, institution or church | 1,156 | feet |
| | i) Within 500 feet of a spring or a private, domestic | | |
| - | fresh water well used by less than five households for | 1,156 | feet |
| 5 | domestic or stock watering purposes, or | | |
| | ii) Within 1000 feet of any fresh water well or spring | 1,156 | feet |
| | Within incorporated municipal boundaries or within a | | |
| | defined municipal fresh water field covered under a | | |
| 6 | municipal ordinance adopted pursuant to Section 3-27- | No | (Y/N) |
| | 3 NMSA 1978 as amended, unless the municipality | | |
| | specifically approves | | |
| 7 | Within 300 feet of a wetland | 5,010 | feet |
| 8 | Within the area overlying a subsurface mine | No | |
| | | | Critical |
| 0 | With in an unstable area (Karat Mara) | N. A. a. ali a | High |
| 9 | Within an unstable area (Karst Map) | Medium | Medium |
| | | | Low |
| 40 | ugul: 400 El III: | 500 | |
| 10 | 10 Within a 100-year Floodplain | | year |
| 11 | Soil Type | Reagan Loam and Upton Soils | |
| 12 | Ecological Classification | Shallow and Loamy | |
| 12 | Leological classification | Silalio | w and Loanly |
| 13 | Geology | | Qa |
| | | | <50' |
| NMAC 19.15.29.12 E (Table 1) Closure Criteria | | <50' | 51-100' >100' |







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USGS Water Resources

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|----------------|---|------------------|---|----|
| Groundwater | ~ | United States | ~ | GO |

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Groundwater levels for the Nation

* IMPORTANT: <u>Next Generation Station Page</u>

Search Results -- 1 sites found

site no list =

321728104040001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

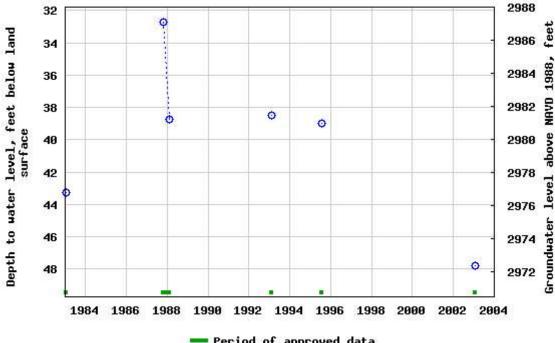
USGS 321728104040001 23S.28E.22.243441

| Available data for this site | Groundwater: | Field measurements | ~ | GO | | |
|------------------------------|--------------|--------------------|------|---------|------------|---------|
| Eddy County, New Mexico | | | | | | |
| Hydrologic Unit Code 1306 | 0011 | | | | | |
| Latitude 32°17'28", Longi | | 4'00" NAD27 | | | | |
| Land-surface elevation 3,0 | 20 feet abo | ve NAVD88 | | | | |
| The depth of the well is 22 | 0 feet belov | w land surface. | | | | |
| This well is completed in th | າe Other aq | uifers (N9999OTI | HER) | nationa | I aquifer. | |
| This well is completed in th | าe Alluvium | , Bolson Deposits | and | Other S | Surface De | eposits |
| (110AVMB) local aquifer. | | | | | | |

Output formats

| Table of data | |
|--------------------|--|
| Tab-separated data | |
| Graph of data | |
| Reselect period | |





- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

Questions about sites/data? Feedback on this web site **Automated retrievals** Help **Data Tips Explanation of terms** Subscribe for system changes **News**

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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-04-26 17:37:43 EDT

0.65 0.59 nadww01





April 27, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

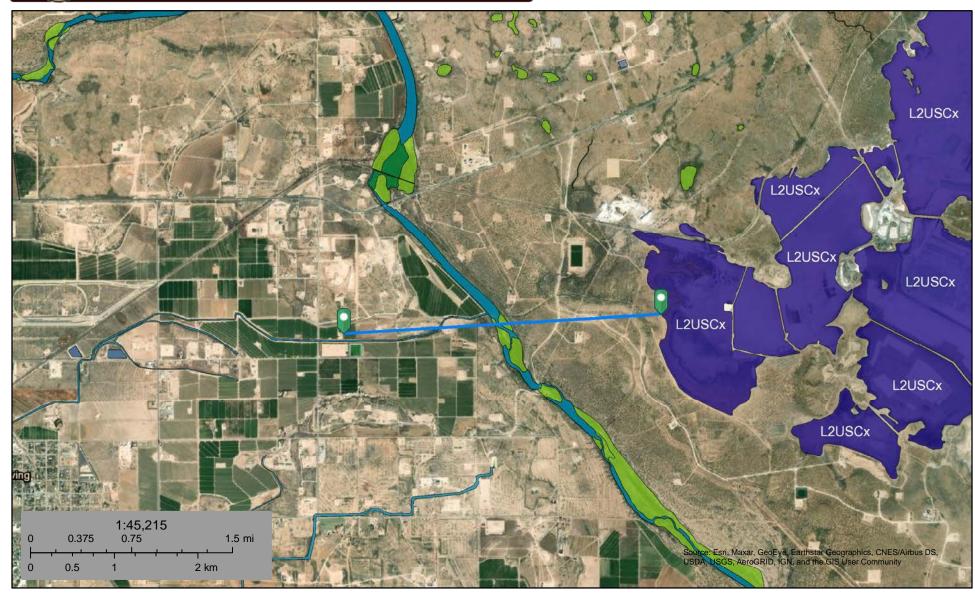
Freshwater Pond

Lake

Freshwater Forested/Shrub Wetland Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



April 27, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

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Lake

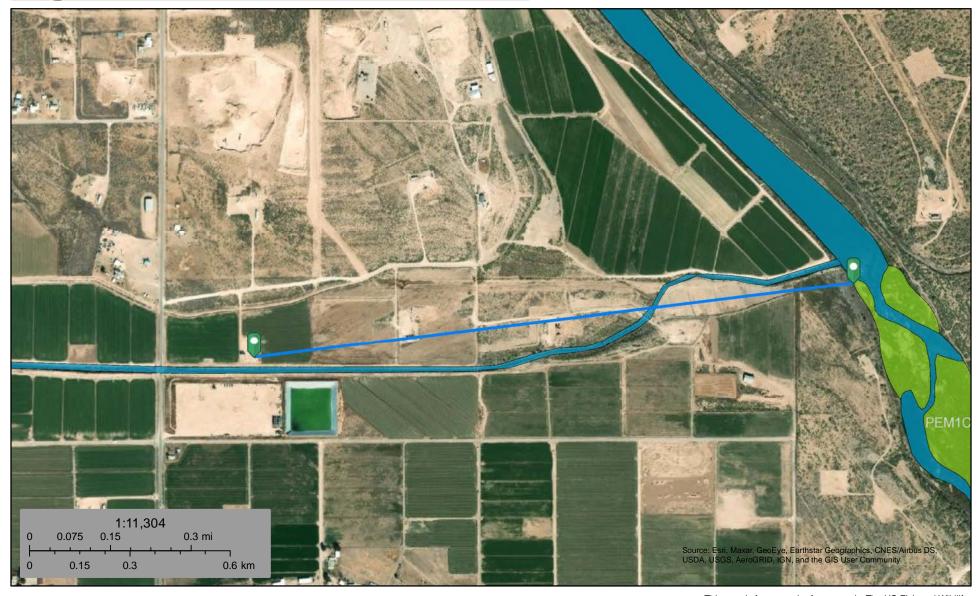
Other

Riverine

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April 27, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

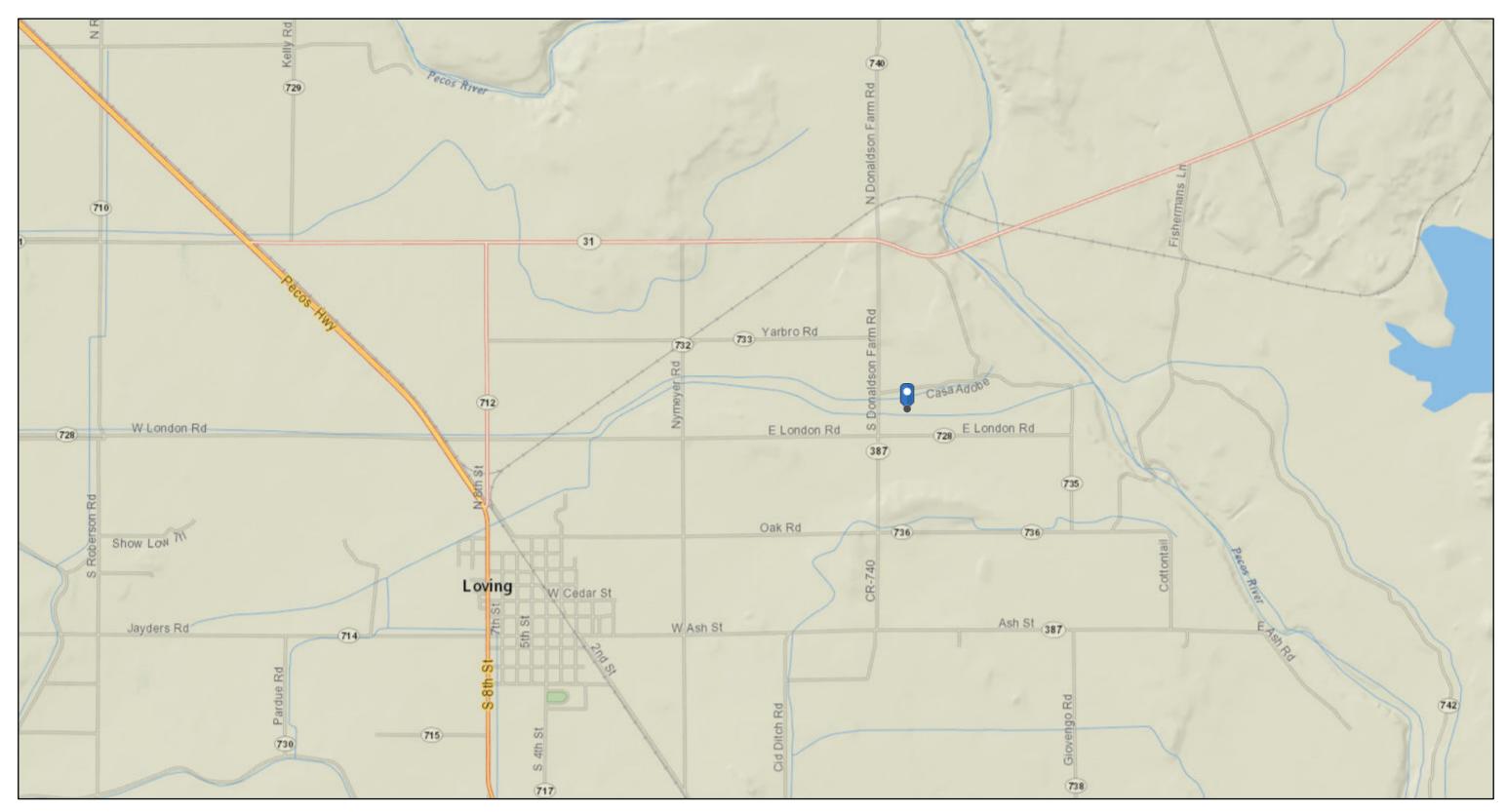
Lake

Other

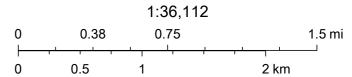


Riverine

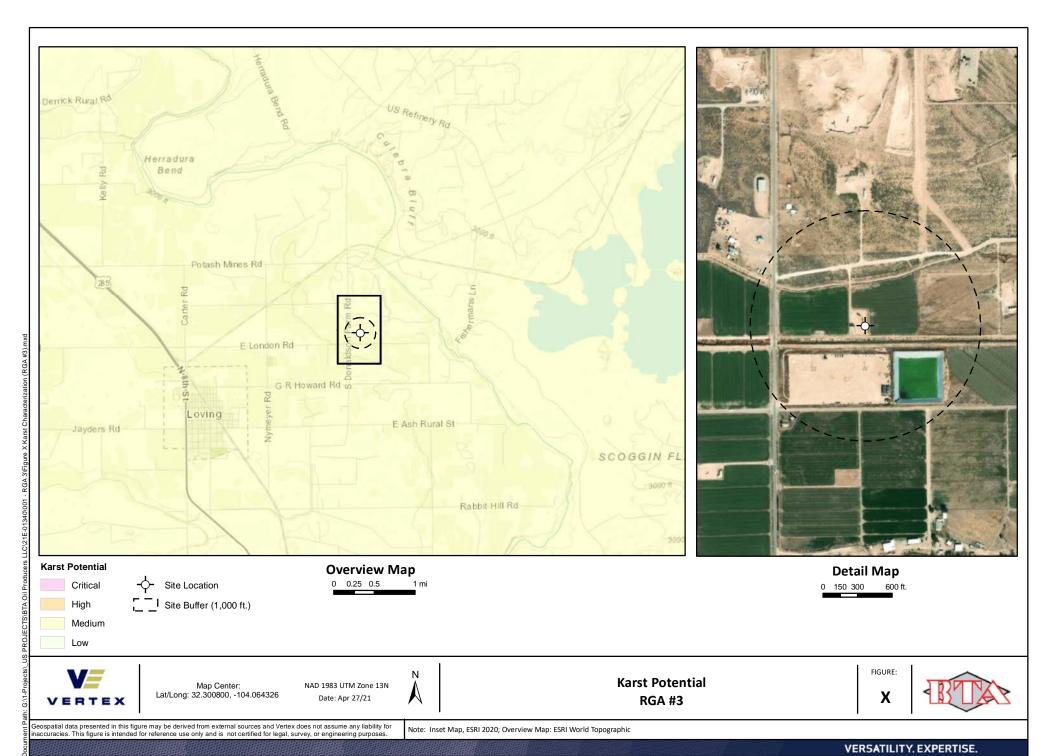
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



4/26/2021, 9:35:50 PM



National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.



ORelease To Imaging: 1/7/2022 10.95:52 AM

Received by OCD: 8/26/2021 12:38:53 PM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD **HAZARD AREAS** Regulatory Floodway

> depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average

Area of Undetermined Flood Hazard Zone D

FLOOD HAZARD Area with Flood Risk due to Levee Zone D

OTHER AREAS

MAP PANELS

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

- - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall

> 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation

Coastal Transect ----- Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary

Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature

Digital Data Available

No Digital Data Available

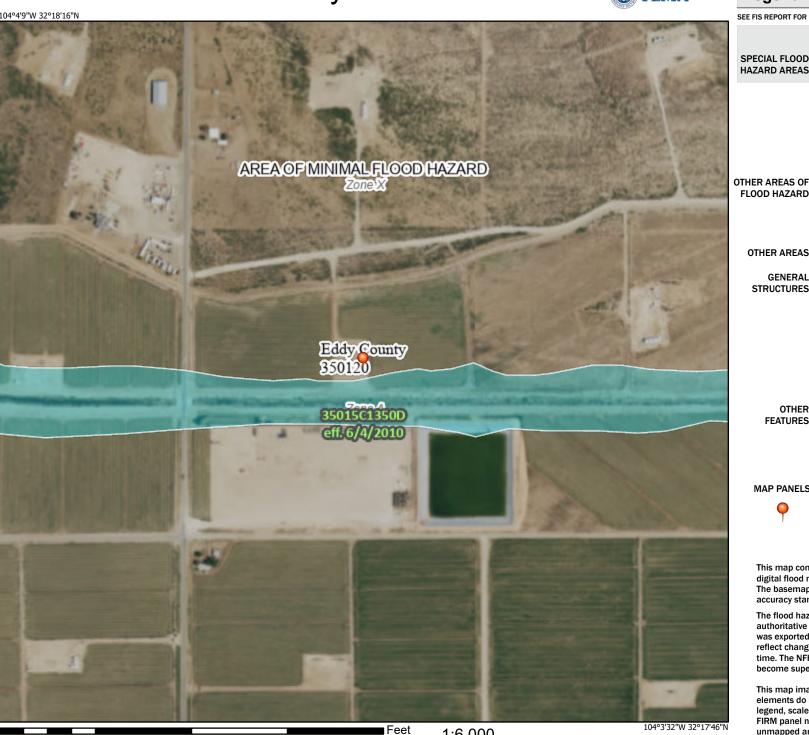
Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

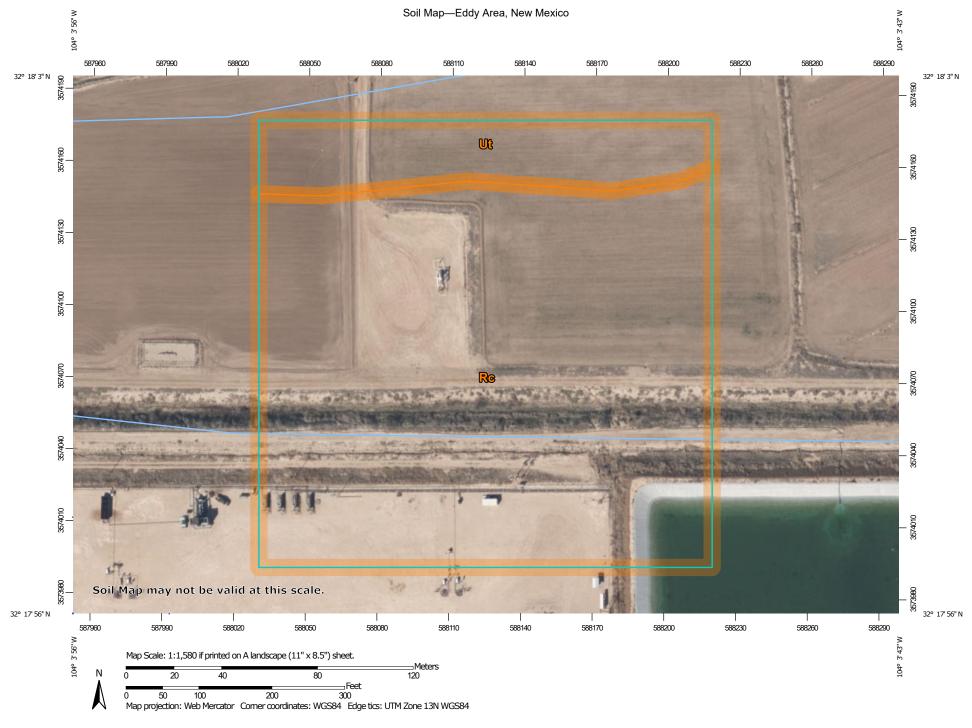
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/26/2021 at 11:18 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



2.000

1:6.000



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout \odot



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



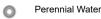
Lava Flow Marsh or swamp



Mine or Quarry



Miscellaneous Water



Rock Outcrop



Saline Spot





Sandy Spot



Severely Eroded Spot





Sinkhole Slide or Slip Sodic Spot



Spoil Area Stony Spot



Very Stony Spot



Wet Spot Other



Special Line Features

Water Features

Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28. 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|-----------------------------|------------------------------------|--------------|----------------|
| Rc | Reagan loam, 0 to 1 percent slopes | 7.4 | 85.0% |
| Ut | Upton soils, 1 to 3 percent slopes | 1.3 | 15.0% |
| Totals for Area of Interest | | 8.8 | 100.0% |

Eddy Area, New Mexico

Rc—Reagan loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w5l Elevation: 1,100 to 5,300 feet

Mean annual precipitation: 7 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 200 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 97 percent *Minor components*: 3 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Reagan

Setting

Landform: Alluvial fans, fan remnants Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 82 inches: loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to

8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

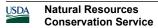
Available water capacity: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: B

Ecological site: R042XC007NM - Loamy



Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Upton

Percent of map unit: 1 percent

Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

Reeves

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

Eddy Area, New Mexico

Ut—Upton soils, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w69 Elevation: 1,100 to 4,400 feet

Mean annual precipitation: 7 to 14 inches

Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 200 to 240 days

Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 98 percent *Minor components:* 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Upton

Setting

Landform: Fans, ridges

Landform position (three-dimensional): Side slope, rise

Down-slope shape: Convex Across-slope shape: Convex Parent material: Mixed alluvium

Typical profile

H1 - 0 to 8 inches: gravelly loam H2 - 8 to 12 inches: gravelly loam H3 - 12 to 21 inches: cemented

H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Low to

moderately high (0.01 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 75 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

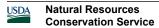
Sodium adsorption ratio, maximum: 1.0

Available water capacity: Very low (about 1.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s



Hydrologic Soil Group: D

Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

Minor Components

Upton

Percent of map unit: 1 percent Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

No

Ecological Reference Worksheet

| Author(s) / | participant(s): | John Tunberg, |
|-------------|-----------------|---------------|
| | | |

Contact for lead author: 505-761-4488 Reference site used? Yes/No

Date: 2/12/2010 **MLRA:** 42.3 **Ecological Site:** Loamy This <u>must</u> be verified based on soils and climate (see Ecological Site Description). Current plant community *cannot* be used to identify the ecological site.

<u>Indicators:</u> For each indicator, describe the potential for the site. Where possible, (1) use numbers, (2) include expected range of values for above and below average years for <u>each</u> community within the reference state, when appropriate & (3) site data. Continue description on separate sheet.

1. Number and extent of rills There should not be any rills.

After wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances rills may double in number on steeper slopes at the margins of this site after high-intensity summer thunderstorms. Any rills formed should not be long lived or interconnected and should heal rapidly.

2. Presence of water flow patterns: There can be evidence of sheet flow.

There can be a few flow patterns that should be short and discontinuous. There can be some sheet flow. Water flow patterns should only be present following intense storm events on upper slope limits at the margins of this site. Numerous obstructions alter flow paths. Flow pattern length and numbers may double after wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances.

- 3. Number and height of erosional pedestals or terracettes: Pedestals should be rare. Terracettes can occure and should be discontinuous. There can be a few pedestals that should be less than 1 inch high. Terracettes can be common and should be discontinuous. If present plant or rock pedestals and terracettes are almost always in flow patterns. Wind caused pedestals are rare and only would be on the site following after wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances. These would show signs of healing within 1 year after event.
- 4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare ground can make up to 50% of the ground cover on this site according to the ESD. Bare patch size should be small.
- 5. Number of gullies and erosion associated with gullies:

Gullies and erosion associated with gullies should be rare are infrequent. Typically, gullies if present will only follow the micro topography. Natural drainages with little to no active cutting are common on this site. There should not be any accelerated erosion. After high-intensity summer thunderstorms or after wildfire, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances then gully formation would be accelerated for a year or two. Evidence of healing within 1 year of event and continuing after that.

6. Extent of wind scoured, blowouts and/or depositional area

There should not be any wind scoured, blowouts and/or depositional areas. However there can be potential for depositional areas. Wind erosion is minimal when the site is in a well vegetated condition. Significant wind erosion would only be present following high-intensity summer thunderstorms, after wildfire, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances. After rain events, exposed soil surfaces form physical crusts that tend to reduce wind erosion. Deposition from off site sources can be common on this site and is in fact a primary soil forming process. This site is succeptable to wind erosion when vegetation is removed or significantly decreased.

7. Amount of litter movement (describe size and distance expected to travel):

Litter should be small (less than "1 in diameter) and its movement should be minimal. This site has adequate vegetation to stop litter movement after short distances. Most of the litter movement on this site will be litter that has been transported onto the site from adjacent sites. Litter produced on this site stays on the site and only travels short distances.

8. Soil surface (top few mm) resistance to erosion (stability) values are averages - most sites will show a range of values for both plant canopy and interspaces, if different):

This site can be susceptible to alluvial erosion. Stability values are estimated to be 1-2 in interspaces and 3-5 at bases of vegetation. This would

9. Soil surface structures and SOM content (include type and strength of structure, and A-horizon color and thickness for both plant canopy and interspaces, if different):

The SOM content should be less than 1%. A--0 to 6 inches; grayish brown (10YR 5/2) loam, dark grayish brown (10YR 4/2) moist; weak fine subangular blocky structure; hard, friable, slightly sticky; surface 1/2 to 2 inches has weak thin to medium platy structure; common very fine and fine pores; common very fine, fine and medium roots; strongly calcareous; slightly alkaline (pH 7.6); clear smooth boundary. (4 to 8 inches thick)

10. Effect of plant community composition (relative proportion of different functional groups) & spatial distribution on infiltration & runoff:

Overall, infiltration rates should be slow for this site but can be higher around bases of grasses than in interspaces and around bases of shrubs. The soils of this site are deep to moderately deep. The moderately deep soils have either a petrocalcic, petrogypsic or gypsum horizon between 30 and 40 inches. Surface textures are loam, silt loam, very fine sandy loam, or clay loam. Substratum textures are loam, silty clay loam, clay loam, or silt loams. Subsoil textures are silt loam, clay loam silty clay loam, gravelly loam, gravelly clay loam or very gravelly loam. Permeability is moderate to slow and the available water holding capacity is high to moderate.

| 11. | Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for |
|-----|--|
| | compaction): |

There should not be any compaction layers on this site. There are soil profile features in the top 9 inches of the soil profile that would be mistaken for a management induced soil compaction layer. Management induced compaction layers will be more difficult to penetrate than clay lenses.

12. Functional/Structural Groups (list in order of descending dominance by above-ground weight using symbols: indicate much greater than (>>), greater than (>), and equal to (=):

black grama >> tobosa > C 4 bunch grasses (dropseeds) > C4 midgrasses (threeawns) >= soaptree yucca, ephedra, fourwing saltbush >= forbs (croton, desert marigold, globemallow, > broom snakeweed, prickly pear, = other forbs.

- 13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Black grama and bunchgrasses can show decadence in centers of plants.
- 15. Expected annual production (this is TOTAL above-ground production, not just forage production):

(Low Production 650 lbs./ac.) (Average RV Production 925 lbs./ac.) (High Production 1200 lbs./ac.) After wildfires, high herbivore impacts, extended drought, or combinations of these disturbances, can cause production to be significantly reduced (100-200 lbs per ac. the first growing season following a wildfire) and recover slowly under below average precipitation regimes.

16. Potential invasive (including noxious) species (native and non-native). List species which characterize degraded states and which, after a threshold is crossed, "can, and often do, continue to increase regardless of the management of the site and may eventually dominate

Tarbush, creosote and mesquite can be invaders to this site. Invasive plants should not occur in reference plant community. However, lovegrass, Russian thistle, kochia, and other nonnative annuals may initially invade following extended disturbance. Mesquite and tarbush and creosote and lovegrass are the greatest threat to dominate this site in the long term after disturbance (primarily following wildfire exclusion but also includes high human or herbivore impacts and extended drought). Mesquite and tarbush and creosote and lovegrass are most likely to retain dominance if allowed to alter natural fire regime (this alteration may require poor land management combined with years of wet winterspring; dry summer-fall conditions). Any of these invaded communities represent a departure from the reference state.

17. Perennial plant reproductive capability:

Black grama reproduces by seed sporadically and reproduction by tiller and stolon can be common. The C4 midgrasses should have high reproductive potential and rapidly recover from drought in the absence of additional stresses (grazing).

| | Photograph (s) | | |
|-------------------------|----------------|--------|--|
| MLRA : | | Date: | |
| | _ | Date ! | |
| Ecological Site: | | | |
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Comments:

Ecological Reference Worksheet

| Author(s |) / participant(s) |): <u>John</u> ' | Funber, | g, Garth Grizzle | | | |
|-----------|--------------------|------------------|----------|-------------------------|---------------------|--|-----|
| Contact f | for lead author | 505-7 | 61-448 | 8 | | Reference site used? Yes/No | No |
| Date: | 2/17/2010 | MLRA: | 42.3 | Ecological Site: | Shallow | This <u>must</u> be verified based on so | ils |
| and clima | te (see Ecologica | l Site Desc | ription |). Current plant con | nmunity <u>cann</u> | ot be used to identify the ecological site. | |
| Indiantar | ran Earragalaire | liantam das | اء مانسم | a matantial familia | rita Whana m | assible (1) use numbers (2) include armeeted | |

<u>Indicators:</u> For each indicator, describe the potential for the site. Where possible, (1) use numbers, (2) include expected range of values for above and below average years for <u>each</u> community within the reference state, when appropriate & (3) site data. Continue description on separate sheet.

- 1. Number and extent of rills There should not be any rills on this site at 5% or less slope. Few on slopes from 5 to 15% After wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances rills may double in number on steeper slopes at the margins of this site after high-intensity summer thunderstorms. Any rills formed should not be long lived or interconnected and should heal rapidly.
- 2. Presence of water flow patterns: Large storms can produce short, less than 1 meter flow patterns across the bare patches.

None or few on less than 5% slopes. Few to several on slopes ranging from 5% to 15%. Flow pattern length of 6 to 8 feet on steeper slopes. Water flow patterns should only be present following intense storm events on upper slope limits at the margins of this site. Numerous obstructions alter flow paths. Flow pattern length and numbers may double after wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances.

3. Number and height of erosional pedestals or terracettes: There should not be any pedestals and terracettes should be rare.

If present plant or rock pedestals and terracettes are almost always in flow patterns. Wind caused pedestals are rare and only would be on the site following after wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances. These would show signs of healing within 1 year after event.

4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):

Bare ground can range from 40 to 60% with bare patches less than 8 inches in size. Discontinuous. Cobble and stones up to 25%.

There should not be any gullies or erosion associated with gullies on this site at

5. Number of gullies and erosion associated with gullies: slopes less than 8%.

Slopes over 8% may have limited gully erosion. Natural drainages with little to no active cutting are common on this site. There should not be any accelerated erosion. After high-intensity summer thunderstorms or after wildfire, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances then gully formation would be accelerated for a year or two. Evidence of healing within 1 year of event and continuing after that.

6. Extent of wind scoured, blowouts and/or depositional area

Wind scoured, blowouts and/or depositional areas should be rare and associated with disturbances (e.g. small mammal burrows, resting areas). Wind erosion is minimal when the site is in a well vegetated condition. Significant wind erosion would only be present following high-intensity summer thunderstorms, after wildfire, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances. After rain events, exposed soil surfaces form physical crusts that tend to reduce wind erosion. Deposition from off site sources can be common on this site and is in fact a primary soil forming process. This site is succeptable to wind erosion when vegetation is removed or significantly decreased.

7. Amount of litter movement (describe size and distance expected to travel):

The size of the litter (grass litter) should be small and its movement should be less than 1 meter across bare patches.

8. Soil surface (top few mm) resistance to erosion (stability) values are averages - most sites will show a range of values for both plant canopy and interspaces, if different):

Stability values are estimated to be 5 to 6 in plant canopy at surface and subsurface. 4 to 5 valus will be in interspaces at surface and subsurface.

9. Soil surface structures and SOM content (include type and strength of structure, and A-horizon color and thickness for both plant canopy and interspaces, if different):

Surface layer is brown 0 to 3 " thick. Color is dark grey brown, brown and grey brown. Soil loss from human and high herbivor impact or extended drought will result in the loss of a portion of the surface horizon. Physical crust will occure on "baked" soils. Textures are loam and gravelly loam.

10. Effect of plant community composition (relative proportion of different functional groups) & spatial distribution on infiltration & runoff:

In a grassland with uniformly distributed grass patches on coarse-textured soils, runoff should be low to nil. Most water infiltrates at the plant bases as well as in the interspaces.

11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction): There should not be any compaction layers on this site.

There are soil profile features in the top 9 inches of the soil profile that would be mistaken for a management induced soil compaction layer. Management induced compaction layers will be more difficult to penetrate than clay lenses.

12. Functional/Structural Groups (list in order of descending dominance by above-ground weight using symbols: indicate much

| greater than | (>>) | greater than | (>) | , and eq | ual to | (=) | : |
|--------------|------|--------------|-----|----------|--------|-----|---|
| | | | | | | | |

Dominants: Black grama > Subdominants: Short-lived perennial C4 bunchgrasses [blue grama and sideoats grama] > Long-lived perennial C4 midgrasses > shrubs > forbs

13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):

Short-lived perennial component can exhibit significant mortality in drought, black grama tends to exhibit mortality only when exposed to drought in addition to other stressors. Shrubs/yucca should exhibit low mortality rates.

14. Average percent litter cover (_____%) and depth (____inches).

5 to 8% litter cover on this site. Well distributed. Depth of 1/2 inch.

15. Expected annual production (this is TOTAL above-ground production, not just forage production):

(Low Production 251 lbs./ac.) (Average RV Production 525 lbs./ac.) (High Production 800 lbs./ac.) After wildfires, high herbivore impacts, extended drought, or combinations of these disturbances, can cause production to be significantly reduced (100-200 lbs per ac. the first growing season following a wildfire) and recover slowly under below average precipitation regimes.

16. Potential invasive (including noxious) species (native and non-native). List species which characterize degraded states and which, after a threshold is crossed, "can, and often do, continue to increase regardless of the management of the site and may eventually dominate

Mesquite, whitethorn and creosotebush (where gravel content high) can be invaders of this site. Invasive plants should not occur in reference plant community. However, lovegrass, Russian thistle, kochia, and other nonnative annuals may initially invade following extended disturbance. Mesquite and whitethorn and creosote and lovegrass are the greatest threat to dominate this site in the long term after disturbance (primarily following wildfire exclusion but also includes high human or herbivore impacts and extended drought). Mesquite and whitethorn and creosote and lovegrass are most likely to retain dominance if allowed to alter natural fire regime (this alteration may require poor land management combined with years of wet winter-spring; dry summer-fall conditions). Any of these invaded communities represent a departure from the reference state.

17. Perennial plant reproductive capability:

Black grama reproduces by seed sporadically and reproduction by tiller and stolon can be common. The dropseeds should have high reproductive potential and rapidly recover from drought in the absence of additional stresses (grazing).

| | Photograph (s) | | |
|-------------------------|----------------|------|---|
| MLRA : | | Date | : |
| Ecological Site: | | | |
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Photo # 2
Comments:



4/26/2021, 3:49:33 PM

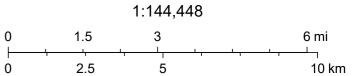
Faults

— Fault, Exposed

— Fault, Intermittent

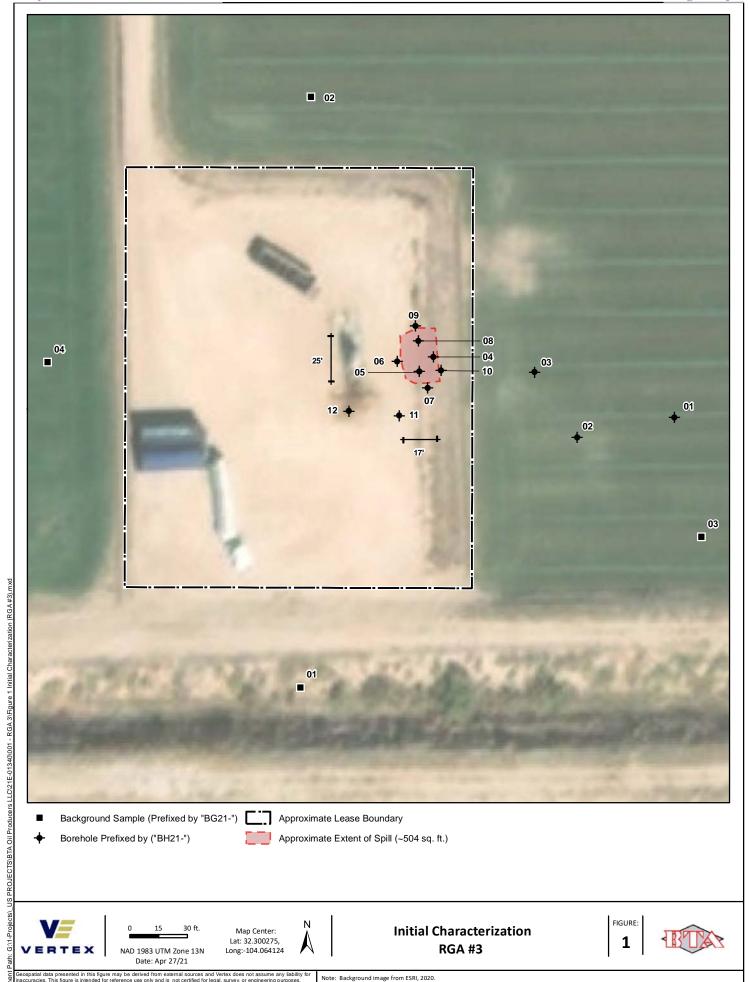
Fault, Concealed

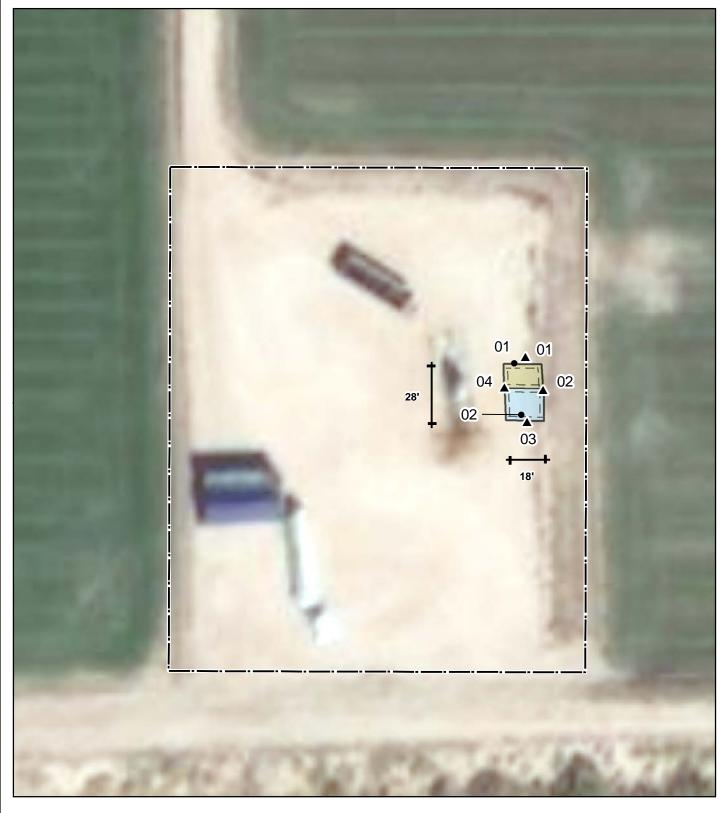
Shere Zone



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, NMBGMR

ATTACHMENT 3





Base Sample (Prefixed by "BS21-") Area Excavated to 2 ft.

Approximate Lease Boundary



G:\1-Projects_US PROJECTS\BTA Oil Producers LLC\21E-01340\001 - RGA 3\Figure 2 Confirmatory Schematic RGA 3.mxd



Map Center: Lat: 32.300339, Long:-104.064308



Confirmatory Schematic RGA #3



ATTACHMENT 4



| Client: | BTA Oil Producers LLC | Inspection Date: | 4/23/2021 |
|-------------------------|-----------------------|------------------|--------------------|
| Site Location Name: | | Report Run Date: | 4/23/2021 11:55 PM |
| Client Contact Name: | Bob Hall | API #: | |
| Client Contact Phone #: | 432-312-2203 | _ | |
| Unique Project ID | | Project Owner: | |
| Project Reference # | | Project Manager: | |
| | | Summary of | Times |
| Arrived at Site | 4/23/2021 9:10 AM | | |
| Departed Site | 4/23/2021 4:37 PM | | |
| | | Field Not | 22 |

Field Notes

- 10:34 Arrived on site to assess characterization of the spill that happened from the pumping unit at RGA #3.
- **10:35** Spill came from the well head and travelled east of the pumping unit and had some overspray that travelled east of the pad 30-40 yards.
- **10:36** The spill has been scraped before my arrival. About 0.5-1ft down on the pad.
- 10:38 I will begin taking samples and mark them at the depth at which the surface is now. (Scraped area 1ft down will be marked at 0 etc.)
- 16:20 Collected sample BH1, BH2, BH3, and BH4 from pasture area. All clean on chlorides and TPH
- **16:21** BH5-12 are on the pad. BH5-8 are collected as bases within the scraped area.
- 16:21 BH5 and BH8 were the only samples high on TPH at the surface. BH5 ran 120 and BH8 over 1000.
- **16:22** BH5 cleaned up at 0.5ft on TPH while BH8 didn't clean up until 2ft. Both sample points are close to each other.
- 16:23 Marking separate polygon for BH5 and BH8 for having to go deeper. Then another polygon for the scraped area.

Next Steps & Recommendations

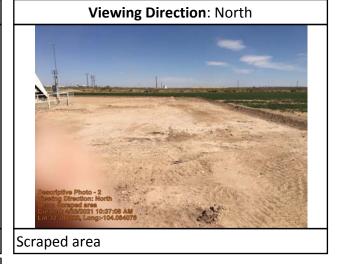
1 No recommendations at this time.



Site Photos



Scraped area



Viewing Direction: East



Overspray area



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

Spill Response and Sampling

VERTEX

| Client: BTA Date: 4/2 Site Name: 76 Client Contact: B Project Manager: Y Project #: 2 E API: Site Wide Picture | 3/21 7A # . Hal 1. Pepp 013 | Spill Date: 3/16/21 Spill Date: 3/16/21 Spill Volume: 22 Spill Cause: 5 tuffing box failu Spill Product: 0:11 PW 1 Cond. Recovered Spill Volume: Recovery Method: On Lease/Off Lease: Both Yes/No Circle Site Placard Picture: Yes/No Field Screening | | | | | | Failure | | | | |
|--|---|---|------------------------|------------------|-----------|----------------|---------------------|-------------------------------------|--------------|-------------|--|--|
| Site Wide Ficture | | | | | | ng | Site Placard Pictur | e. Tesy No | 'Data Colleg | | | |
| | | Hydroc | arbon PetroFlag TPH | EC Reading | Chlo | | Chloride | | for | | | |
| Sample ID SS/TP/BH - Year - Number Ex. BH18-01 | Depth (ft) | VOC (PID) | (ppm) 200.0 | (dS/cm) 0.006 | Temp (°C) | Chloride (ppm) | Titration (ppm) | Lab Analysis BTEX TPH None | Picture | Site Sketch | | |
| BG21-01 | 0 | ტ.3 | _ | | | | 170 | Note | | | | |
| BG21-01 | 2 | _ | ediction | | | | 325 | | | | | |
| BG21-02 | 0 | 8.0 | | | | | 207 | | | | | |
| BG21-02 | 2 | 1 | end ictions and | | | | 3430 | | | | | |
| BG2 F03 | 0 | 0.5 | beco- | | | | 180 | | 20 | | | |
| BG21-03 | 2 | - | 1 | | | | 250 | | | | | |
| BG21-04 | 0 | 1.0 | - | | | | 757 | | | | | |
| BG21-04 | 1 | 2 | - | | | | 595 | | | | | |
| BG21-04 | \mathcal{A} | | j | | | | 750 | | | | | |
| BH2101 | | 0.6 | 82 | | | | 315 | | | | | |
| BH21-02 | 0-05 | 0.7 | 34 | | | | 225 | | | | | |
| BH21-03 | | 0.6 | 99 | | | | 232 | | | | | |
| BH21-04 | | 3.8 | 118 | | | | 357 | | | | | |
| BH21-05 | | 5.6 | 158 | | | | 257 | | | | | |
| BH21-05 | | | 47 | | | | 317 | | | | | |
| BH21-06 | | | 27 | | | | 297 | | | | | |
| BH21-07 | | | 90 | | | | 205 | | | | | |
| BH21-08 | | 29.5 | | | | | 296 | | | | | |
| 80-16HB | | 5.0 | 427 | | | | | | | | | |
| BH91-08 | | 1.1 | 116 | | | | | | | | | |
| BH21-08 | | 0.6 | 118 | | | | 430 | | | | | |
| BH21-08 | 9 | *** | 98 | | | | 780 | | | | | |

Spill Response and Sampling

VERTEX

| Site Location: | 3/21 A-# ,.Hall n.Pep | | | Circle | | | Spill Date: 3/ | 22 tuffing box foil / PW / Cond. | riture |
|--|--------------------------------|---------------------|----------------|------------------|-----------|----------------|-----------------|-------------------------------------|-------------------------|
| | | | | Field Sc | Sampli | ing | | | 'Data Collection (Check |
| | D 11 (6) | Hydror MOS (PIP) | PetroFlag TPH | EC Reading | Chlo | oride | Chloride | Lab Analysis | for Yes) |
| Sample ID SS/TP/BH - Year - Number Ex. BH18-01 | Depth (ft) | VOC (PID) 400.0 | (ppm) 200.0 | (dS/cm) 0.006 | Temp (°C) | Chloride (ppm) | Titration (ppm) | Lab Analysis BTEX TPH None | Picture Site Sketcl |
| BH21-09 | 0-0.5 | ما.ن | 29 | | | | 360 | | |
| BH21-10 | 0-0.5 | 0.7 | 48 | | | | 375 | | |
| BH21-11 | 0 | 0.6 | 95 | | | | 427 | | |
| BH21-13 | | 0.5 | 60 | | | | 297 | | |
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4/28/2021 Client: **BTA Oil Producers LLC** Inspection Date: 4/28/2021 7:26 PM Site Location Name: **RGA#3** Report Run Date: **Bob Hall** 30-015-26331 Client Contact Name: API#: Client Contact Phone #: 432-312-2203 **Unique Project ID** Project Owner: Project Reference # Project Manager: **Summary of Times** Arrived at Site 4/28/2021 8:10 AM 4/28/2021 12:35 PM **Departed Site**

Field Notes

- **8:17** Arrived on site, began dfr and filled out safety paperwork
- 12:21 Collected a total of 6 confirmation samples. 2 BS and 4 WS. All samples have been field screened and jarred for labs.
- 12:23 Approximately 32 yards excavated.

Next Steps & Recommendations

1 Submit samples to lab and wait for results



Site Photos

Viewing Direction: South



Excavation of area, going from 2' to 6". Working from left to right

Viewing Direction: East

| District Office of the Prince o

Excavation area, working left to right. 2' to 6"

Viewing Direction: East



Excavation

Viewing Direction: South



Excavation area





Fencing around excavation



Daily Site Visit Signature

Inspector: John Ramirez

Signature: Signature

Spill Response and Sampling



| Site Name: RGA | 7 # 3 | ************************************** | | | | | Spill Date: 3. | mation Record on First Visit | Miles there is the second of the Market San Street, and |
|--|--|--|--|---|--|--|--|--|--|
| Site Location: 32, Flight Contact: Box Project Manager // Project #: 215 7 | 30025 | 39 - | 104 00 | 21115-22 | | | Spill Volume | Haffing box Coile | |
| client contact: Box | b Hall | | 10 7.00 | 42372 | | | Spill Cause: 5 | npo- | |
| Project Manager | bnica | Papper- | 2 | | | | Spill Product | 11/1m/Cond | The second secon |
| Project 11 Alba | 01340 | // | | | | | The second second second | | |
| API | | | Statement of the same of the s | | | | Recovery Methor | 81. | The state of the s |
| an, onthe tactility | | Yes/No | | Chrio | | | Site Placard Pictor | the file | |
| | | Hydr | ocarbon | Field Scr | Samp sening | ling | | | Circle |
| Sample 1D | Depth (ft) | VOC (PID) | PetroFlag FPU (ppm) | Ef Reading | Temp (°C) | eride Chloride (ppm | Chloride | Manusing's a transport of the state of the s | 'Data Collection (Check for Yes) |
| Number Ex. BH18-01 | Ex. 12ft | 400.0 | 200.0 | (dS/em) 0.006 | 25 | 0 | Titration (ppm) | Lah Analysis RTEX TPH | Picture Marked or Site Sketch |
| 3521-01 | | | 32 | | -Piremenhandenium est ha grant (a), herensen dan | | 435 | None | |
| 1821-02 | 1 | *** | 80 | | | | 312 | 195 196 | |
| N521-01 | | | 56 | | | | 477 | 156 | er de en |
| NS21 -02 | | | 58 | *************************************** | | | 215 | 65 | and the second s |
| V21-03 | 0.0.5 | | 18 | | | | 287 | 156 | |
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ATTACHMENT 5

Monica Peppin

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Monday, April 26, 2021 10:52 AM

To: Enviro, OCD, EMNRD

Cc:John Hurt; Monica Peppin; BHall@btaoil.comSubject:nAPP2107450435 48 HR Notification RGA 3

All,

Please accept this email as 48-hour notification that Vertex Resource Services has scheduled confirmatory sampled to be conducted at RGA #3 for the following release:

nAPP2107450435 DOR: March 15, 2021

On Wednesday, April 28, 2021 at approximately 8:00 AM, Monica Peppin will be onsite to conduct confirmatory sampling after excavation has been completed. She can be reached at 575-361-9880, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you, Monica

Monica Peppin

Project Manager

Vertex Resource Group Ltd. 3101 Boyd Drive, Carlsbad, NM 88220

P 575.725.5001 Ext. 711 C 575.361.9880 F

www.vertex.ca

Confidentiality Notice: This message and any attachments are solely for the intended recipient and may contain confidential or privileged information. If you are not the intended recipient, any disclosure, copying, use, or distribution of the information included in this message and any attachment is prohibited. If you have received this communication in error, please notify us by reply email and immediately and permanently delete this message and any attachments. Thank you.

ATTACHMENT 6

Client Name: BTA Oil Producers, LLC

Site Name: RGA #3 Project #: 21E-01340-001 Lab Report: 2104B59, 2104B06

| | | | Т | able 2. Re | ease Chara | cterization | Sampling | <50 ft | | | | | |
|-----------|--------------------|-------------|-------------------------------------|---|------------------------------------|-------------|--------------|----------------------------------|--------------------------------|-----------------------------------|-------------|---------------------------------------|-----------|
| | Sample Description | n | F | ield Screenii | ng | | | Petrol | eum Hydroc | arbons | | | |
| | | | | | | Vol | atile | | | Extractable | | | Inorganic |
| Sample ID | Depth (ft) | Sample Date | Volatile Organic Compounds (PID) | Extractable Organic Compounds (Petro Flag) | Inorganics (Quantab - High/Low) | Benzene | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) | Chloride |
| | | | (ppm) | (ppm) | (+/-) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| BH21-01 | 0-0.5 | 4/23/2021 | 0.6 | 82 | 315 | - | - | - | - | - | - | - | - |
| BH21-02 | 0-0.5 | 4/23/2021 | 0.7 | 34 | 225 | - | - | - | - | - | - | - | - |
| BH21-03 | 0-0.5 | 4/23/2021 | 0.6 | 22 | 232 | - | - | - | - | - | - | - | - |
| BH21-04 | 0 | 4/23/2021 | 3.8 | 118 | 357 | - | - | 1 | - | - | - | - | - |
| BH21-05 | 0 | 4/23/2021 | 5.6 | 158 | 257 | <0.024 | <0.215 | <4.8 | 33 | <48 | 38 | 86 | 110 |
| BH21-05 | 0.5 | 4/23/2021 | 1.2 | 47 | 317 | <0.024 | <0.217 | <4.8 | <9.9 | <49 | <14.7 | <63.7 | 100 |
| BH21-06 | 0 | 4/23/2021 | 0.5 | 27 | 297 | <0.024 | <0.217 | <4.8 | <9.5 | <48 | <14.3 | <62.3 | 110 |
| BH21-07 | 0 | 4/23/2021 | 0.7 | 90 | 205 | <0.023 | <0.208 | <4.6 | 24 | <48 | 29 | 77 | 160 |
| BH21-08 | 0 | 4/23/2021 | 29.5 | 1,101 | 296 | <0.024 | <0.212 | <4.7 | 1,900 | 1,500 | 1,905 | 3,405 | 170 |
| BH21-08 | 0.5 | 4/23/2021 | 5.0 | 427 | - | - | - | - | - | - | - | - | - |
| BH21-08 | 1 | 4/23/2021 | 1.1 | 116 | - | - | - | - | - | - | - | - | - |
| BH21-08 | 1.5 | 4/23/2021 | 0.6 | 118 | 430 | - | - | - | - | - | - | - | - |
| BH21-08 | 2 | 4/23/2021 | - | 98 | 780 | <0.025 | <0.225 | <5.0 | <9.8 | <49 | <14.8 | <63.8 | 84 |
| BH21-09 | 0-0.5 | 4/23/2021 | - | 24 | 360 | <0.023 | <0.21 | <4.7 | <9.5 | <47 | <14.2 | <61.2 | 330 |
| BH21-10 | 0-0.5 | 4/23/2021 | - | 48 | 375 | <0.024 | <0.219 | <4.9 | <9.9 | <49 | <14.8 | <63.8 | 150 |
| BH21-11 | 0 | 4/23/2021 | - | 95 | 427 | - | - | - | - | - | - | - | - |
| BH21-12 | 0 | 4/23/2021 | 0.5 | 60 | 297 | - | - | - | - | - | - | - | - |
| BG21-01 | 0 | 4/23/2021 | 0.3 | - | 170 | - | - | - | - | - | - | - | - |
| BG21-01 | 2 | 4/23/2021 | - | - | 325 | <0.024 | <0.216 | <4.8 | <9.6 | <48 | <14.4 | <62.4 | 1,900 |
| BG21-02 | 0 | 4/23/2021 | 0.8 | - | 207 | - | - | - | - | - | - | - | - |
| BG21-02 | 2 | 4/23/2021 | - | - | 3,430 | <0.025 | <0.224 | <5.0 | <9.7 | <48 | <14.7 | <62.7 | 160 |
| BG21-03 | 0 | 4/23/2021 | 0.5 | - | 180 | - | - | - | - | - | - | - | - |
| BG21-03 | 2 | 4/23/2021 | - | - | 250 | <0.025 | <0.222 | <4.9 | <9.5 | <47 | <14.4 | <61.4 | 140 |
| BG21-04 | 0 | 4/23/2021 | 1 | - | 757 | - | - | - | - | - | - | - | - |
| BG21-04 | 1 | 4/23/2021 | - | - | 595 | - | - | - | - | - | - | - | - |
| BG21-04 | 2 | 4/23/2021 | - | - | 750 | <0.024 | <0.215 | <4.8 | <9.6 | <48 | <14.4 | <62.4 | 410 |

"." Indicates not analyzed/assessed
Bold and shaded indicates exceedance outside of applied action level



Client Name: BTA Oil Producers, LLC

Site Name: RGA # 3

NM OCD Incident Tracking #: nAPP2107450435

Project #: 21E-01340-001 Lab Report: 2104D06

| | | Table 3. Confirma | atory Sampling | g Laboratory D | Data Results - I | Depth to Grou | ndwater > 50 | feet | | |
|-----------|--------------------|-------------------|--------------------|-------------------|---|-----------------------------|-----------------|-------------|---------------------------------------|-----------|
| | Sample Description | | | | Petr | oleum Hydroca | rbons | | | Inorganic |
| | | | Vol | atile | | | Extractable | | | |
| Sample ID | Depth (ft) | Sample Date | Benzene (mg/kg) | (Sa) BTEX (Total) | (Gasoline Range সূত্র Organics (GRO) | Diesel Range Organics (PRO) | Motor Oil Range | (eko + DRO) | Total Petroleum Hydrocarbons (TPH) | (mg/kg) |
| BS21-01 | 2 | April 28, 2021 | ND | ND | ND | ND | ND | ND | ND | 160 |
| | | | ND ND | ND ND | ND ND | 39 | 49 | 39 | 88 | 160 |
| BS21-02 | 0.5 | April 28, 2021 | | | | | _ | | | |
| WS21-01 | 0-2 | April 28, 2021 | ND | ND | ND | ND | ND | ND | ND | 240 |
| WS21-02 | 0-2 | April 28, 2021 | ND | ND | ND | ND | ND | ND | ND | 100 |
| WS21-03 | 0-0.5 | April 28, 2021 | ND | ND | ND | ND | ND | ND | ND | 150 |
| WS21-04 | 0-2 | April 28, 2021 | ND | ND | ND | ND | ND | ND | ND | 140 |

Bold and shaded indicates exceedance outside of NM OCD Closure Criteria



ATTACHMENT 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

April 30, 2021

Monica Peppin Vertex Resource Group Ltd. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX

RE: RGA 3 OrderNo.: 2104B06

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/27/2021 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 www.hallenvironmental.com 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BG21-01 2'

 Project:
 RGA 3
 Collection Date: 4/26/2021 10:20:00 AM

 Lab ID:
 2104B06-001
 Matrix: SOIL
 Received Date: 4/27/2021 7:39:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|---------------------------------------|----------|--------|---------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 4/28/2021 3:09:44 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 4/28/2021 3:09:44 PM |
| Surr: DNOP | 122 | 70-130 | %Rec | 1 | 4/28/2021 3:09:44 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: VP |
| Chloride | 1900 | 60 | mg/Kg | 20 | 4/29/2021 4:55:10 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIS | Т | | | | Analyst: BRM |
| Benzene | ND | 0.024 | mg/Kg | 1 | 4/28/2021 11:25:29 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 4/28/2021 11:25:29 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 4/28/2021 11:25:29 PM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 4/28/2021 11:25:29 PM |
| Surr: 1,2-Dichloroethane-d4 | 103 | 70-130 | %Rec | 1 | 4/28/2021 11:25:29 PM |
| Surr: 4-Bromofluorobenzene | 105 | 70-130 | %Rec | 1 | 4/28/2021 11:25:29 PM |
| Surr: Dibromofluoromethane | 108 | 70-130 | %Rec | 1 | 4/28/2021 11:25:29 PM |
| Surr: Toluene-d8 | 102 | 70-130 | %Rec | 1 | 4/28/2021 11:25:29 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | . | | | | Analyst: BRM |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 4/28/2021 11:25:29 PM |
| Surr: BFB | 95.9 | 70-130 | %Rec | 1 | 4/28/2021 11:25:29 PM |

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

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 Limit

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Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BG21-02 2'

 Project:
 RGA 3
 Collection Date: 4/26/2021 10:25:00 AM

 Lab ID:
 2104B06-002
 Matrix: SOIL
 Received Date: 4/27/2021 7:39:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-----------------------------------|----------|--------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE | ORGANICS | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 4/28/2021 3:19:27 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 4/28/2021 3:19:27 PM |
| Surr: DNOP | 106 | 70-130 | %Rec | 1 | 4/28/2021 3:19:27 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: VP |
| Chloride | 160 | 60 | mg/Kg | 20 | 4/29/2021 11:01:30 AM |
| EPA METHOD 8260B: VOLATILES SHORT | Γ LIST | | | | Analyst: BRM |
| Benzene | ND | 0.025 | mg/Kg | 1 | 4/28/2021 11:52:32 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 4/28/2021 11:52:32 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 4/28/2021 11:52:32 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 4/28/2021 11:52:32 PM |
| Surr: 1,2-Dichloroethane-d4 | 106 | 70-130 | %Rec | 1 | 4/28/2021 11:52:32 PM |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | %Rec | 1 | 4/28/2021 11:52:32 PM |
| Surr: Dibromofluoromethane | 108 | 70-130 | %Rec | 1 | 4/28/2021 11:52:32 PM |
| Surr: Toluene-d8 | 99.7 | 70-130 | %Rec | 1 | 4/28/2021 11:52:32 PM |
| EPA METHOD 8015D MOD: GASOLINE RA | ANGE | | | | Analyst: BRM |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 4/28/2021 11:52:32 PM |
| Surr: BFB | 92.0 | 70-130 | %Rec | 1 | 4/28/2021 11:52:32 PM |

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

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 Limit

Page 2 of 8

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BG21-03 2'

 Project:
 RGA 3
 Collection Date: 4/26/2021 10:30:00 AM

 Lab ID:
 2104B06-003
 Matrix: SOIL
 Received Date: 4/27/2021 7:39:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--|--------|--------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 4/28/2021 3:57:16 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 4/28/2021 3:57:16 PM |
| Surr: DNOP | 123 | 70-130 | %Rec | 1 | 4/28/2021 3:57:16 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: VP |
| Chloride | 140 | 60 | mg/Kg | 20 | 4/29/2021 11:38:33 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIS | ST. | | | | Analyst: BRM |
| Benzene | ND | 0.025 | mg/Kg | 1 | 4/29/2021 12:19:36 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 4/29/2021 12:19:36 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 4/29/2021 12:19:36 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 4/29/2021 12:19:36 AM |
| Surr: 1,2-Dichloroethane-d4 | 107 | 70-130 | %Rec | 1 | 4/29/2021 12:19:36 AM |
| Surr: 4-Bromofluorobenzene | 102 | 70-130 | %Rec | 1 | 4/29/2021 12:19:36 AM |
| Surr: Dibromofluoromethane | 110 | 70-130 | %Rec | 1 | 4/29/2021 12:19:36 AM |
| Surr: Toluene-d8 | 100 | 70-130 | %Rec | 1 | 4/29/2021 12:19:36 AM |
| EPA METHOD 8015D MOD: GASOLINE RANG | E | | | | Analyst: BRM |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 4/29/2021 12:19:36 AM |
| Surr: BFB | 93.5 | 70-130 | %Rec | 1 | 4/29/2021 12:19:36 AM |

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

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 Limit

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Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BG21-04 2'

 Project:
 RGA 3
 Collection Date: 4/26/2021 10:35:00 AM

 Lab ID:
 2104B06-004
 Matrix: SOIL
 Received Date: 4/27/2021 7:39:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--|--------|--------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 4/28/2021 4:06:57 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 4/28/2021 4:06:57 PM |
| Surr: DNOP | 107 | 70-130 | %Rec | 1 | 4/28/2021 4:06:57 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: VP |
| Chloride | 410 | 60 | mg/Kg | 20 | 4/29/2021 12:15:35 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIS | т | | | | Analyst: BRM |
| Benzene | ND | 0.024 | mg/Kg | 1 | 4/29/2021 12:46:40 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 4/29/2021 12:46:40 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 4/29/2021 12:46:40 AM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 4/29/2021 12:46:40 AM |
| Surr: 1,2-Dichloroethane-d4 | 106 | 70-130 | %Rec | 1 | 4/29/2021 12:46:40 AM |
| Surr: 4-Bromofluorobenzene | 107 | 70-130 | %Rec | 1 | 4/29/2021 12:46:40 AM |
| Surr: Dibromofluoromethane | 111 | 70-130 | %Rec | 1 | 4/29/2021 12:46:40 AM |
| Surr: Toluene-d8 | 98.9 | 70-130 | %Rec | 1 | 4/29/2021 12:46:40 AM |
| EPA METHOD 8015D MOD: GASOLINE RANGI | E | | | | Analyst: BRM |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 4/29/2021 12:46:40 AM |
| Surr: BFB | 94.9 | 70-130 | %Rec | 1 | 4/29/2021 12:46:40 AM |

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

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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104B06**

30-Apr-21

Client: Vertex Resource Group Ltd.

Project: RGA 3

Sample ID: MB-59700 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59700 RunNo: 77029

Prep Date: 4/29/2021 Analysis Date: 4/29/2021 SeqNo: 2731376 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59700 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59700 RunNo: 77029

Prep Date: 4/29/2021 Analysis Date: 4/29/2021 SeqNo: 2731377 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.5 90 110

Sample ID: MB-59704 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **59704** RunNo: **77042**

Prep Date: 4/29/2021 Analysis Date: 4/29/2021 SeqNo: 2731644 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59704 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59704 RunNo: 77042

Prep Date: 4/29/2021 Analysis Date: 4/29/2021 SeqNo: 2731645 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.9 90 110

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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104B06**

30-Apr-21

Client: Vertex Resource Group Ltd.

Project: RGA 3

Sample ID: MB-59659 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 59659 RunNo: 77011 Prep Date: 4/27/2021 Analysis Date: 4/28/2021 SeqNo: 2730655 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 11 10.00 113 70 130

Sample ID: LCS-59659 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 59659 RunNo: 77011 Prep Date: 4/27/2021 Analysis Date: 4/28/2021 SeqNo: 2730657 Units: mg/Kg SPK value SPK Ref Val %REC Analyte PQL LowLimit HighLimit %RPD **RPDLimit** Qual

 Diesel Range Organics (DRO)
 60
 10
 50.00
 0
 119
 68.9
 141

 Surr: DNOP
 5.9
 5.000
 119
 70
 130

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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104B06**

30-Apr-21

Client: Vertex Resource Group Ltd.

Project: RGA 3

| Sample ID: Ics-59658 | Samp1 | ype: LC | s | Tes | tCode: El | PA Method | 8260B: Volat | tiles Short | List | |
|-----------------------------|------------|-------------------|-----------|-----------------------|-----------------|-----------|--------------|-------------|----------|------|
| Client ID: LCSS | Batcl | h ID: 59 0 | 658 | F | RunNo: 7 | 7007 | | | | |
| Prep Date: 4/27/2021 | Analysis D | Date: 4/ | 28/2021 | SeqNo: 2730200 | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.025 | 1.000 | 0 | 109 | 70 | 130 | | | |
| Toluene | 0.99 | 0.050 | 1.000 | 0 | 98.7 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.53 | | 0.5000 | | 106 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.50 | | 0.5000 | | 101 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.56 | | 0.5000 | | 112 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.51 | | 0.5000 | | 101 | 70 | 130 | | | |

| Sample ID: mb-59658 | Sampl | Гуре: МЕ | BLK | TestCode: EPA Method 8260B: Volatiles Short List | | | | | List | | | |
|-----------------------------|------------|-----------------|-----------|--|------|----------|--------------|------|----------|------|--|--|
| Client ID: PBS | Batcl | h ID: 59 | 658 | RunNo: 77007 SeqNo: 2730201 | | | Units: mg/Kg | | | | | |
| Prep Date: 4/27/2021 | Analysis D | Date: 4/ | 28/2021 | | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Benzene | ND | 0.025 | | | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.55 | | 0.5000 | | 111 | 70 | 130 | | | | | |
| Surr: 4-Bromofluorobenzene | 0.52 | | 0.5000 | | 104 | 70 | 130 | | | | | |
| Surr: Dibromofluoromethane | 0.57 | | 0.5000 | | 113 | 70 | 130 | | | | | |
| Surr: Toluene-d8 | 0.49 | | 0.5000 | | 98.8 | 70 | 130 | | | | | |

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

- 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104B06**

30-Apr-21

Client: Vertex Resource Group Ltd.

Project: RGA 3

Sample ID: Ics-59658 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 59658 RunNo: 77007

Prep Date: 4/27/2021 Analysis Date: 4/28/2021 SeqNo: 2730182 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) 22 5.0 25.00 0 86.0 70 130

 Gasoline Range Organics (GRO)
 22
 5.0
 25.00
 0
 86.0
 70
 130

 Surr: BFB
 460
 500.0
 92.1
 70
 130

Sample ID: mb-59658 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 59658 RunNo: 77007

Prep Date: 4/27/2021 Analysis Date: 4/28/2021 SeqNo: 2730183 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 470 500.0 94.5 70 130

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 Quantitative 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 Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

| Client Name: | Vertex Resource Group Ltd. | Work Order Numb | er: 2104B06 | | RcptNo: | 1 |
|-------------------------|--|--|---|-----------------------------|--|-------------------|
| Received By: | Cheyenne Cason | 4/27/2021 7:39:00 A | M | Chul | | |
| Completed By: | Cheyenne Cason | 4/27/2021 8:16:38 A | M | Cheal | | |
| Reviewed By: | ENH | 4127/21 | | | | |
| Chain of Cus | <u>stody</u> | | _ | | _ | |
| 1. Is Chain of C | custody complete? | | Yes 🗸 | No 🗌 | Not Present | |
| 2. How was the | sample delivered? | | Courier | | | |
| Log In 3. Was an atten | npt made to cool the samples | 3? | Yes 🗹 | No 🗔 | NA 🗆 | |
| 4. Were all sam | ples received at a temperatu | re of >0° C to 6.0°C | Yes 🗹 | No 🗀 | NA \square | |
| 5. Sample(s) in | proper container(s)? | | Yes 🗹 | No 🗔 | | |
| 6. Sufficient san | nple volume for indicated test | (s)? | Yes 🗹 | No 🗌 | | |
| 7. Are samples | (except VOA and ONG) prop | erly preserved? | Yes 🗹 | No 🗌 | | |
| 8. Was preserva | ative added to bottles? | | Yes 🗌 | No 🗹 | NA 🗆 | |
| 9 Received at le | east 1 vial with headspace <1 | /4" for AO VOA? | Yes 🗌 | No 🗀 | NA 🗹 | . 0 |
| | mple containers received bro | | Yes \square | No 🗹 | | 70 |
| 10. Train any sa | · · · · · · | | 100 | | # of preserved bottles obecked | 4/2 h |
| | ork match bottle labels? cancies on chain of custody) | | Yes 🗸 | No 🗆 | for pH: (<2 or | >12 unless noted) |
| 12. Are matrices | correctly identified on Chain | of Custody? | Yes 🗹 | No 🗌 | Adjusted? | |
| | at analyses were requested? | | Yes 🗹 | No ∐ | Oh a - I d have | |
| | ling times able to be met? customer for authorization.) | | Yes 🗸 | No 🗌 | Checked by: | |
| | lling (if applicable) | | | | | |
| 15. Was client n | otified of all discrepancies wit | h this order? | Yes 🗌 | No 🗆 | NA 🗹 | |
| Person | n Notified: | Date: | | AND RESIDENCE PROPERTY HAVE | | |
| By Wh | nom: | Via: | eMail | Phone 🗌 Fax | ☐ In Person | |
| Regard | ding: | The state of the s | THE PERSON NAMED IN COLUMN | | | |
| Client | Instructions: | | an California estruptus (19 pa 19 alian California III de La patro estimatoria) | | and the state of t | |
| 16. Additional re | emarks: | | | | | |
| 17. Cooler Info | ormation | | | | | |
| | o Temp °C Condition | Seal Intact Seal No | Seal Date | Signed By | TO LOW FORM THE | |
| 1 | 0.6 Good | ALLENS AL | men in tala and the commence of the period of the | COLUMN TO THE STREET | | |
| 2 | 0.3 Good | | | ere | non-new services and services are services and services are services and services and services and services are services and services are services and services and services are services are services and services are services are services a | |

| Chain-of-Custody Record | Nont : | | | | | | | Vete | 20 0 R | i ka e i | NTAI | |
|--|---|--------------------------------|-----------------|----------------------------|--|---------------|-------------------------------|-----------------|---------------------------|---|------|-----|
| Client: Vertex | ☑ Standard □ Rush | 1 | SPAR | | | | | | | | TOR | _ |
| Mailing Address: | Project Name: RGA H Project #: | } | 1 | | ww lawkins 05-345-3 | NE ~ | | nerqu | | 87109 | | |
| Phone #: | 21E-0/340 Analysis Req | | | | | | | | | | | |
| email or Fax#: | Project Manager: | (8021) | 2 | | | SO4 | | £ | | | | |
| QA/QC Package: □ Standard □ Level 4 (Full Validation) | Monic, Repp. | Monic, Reppin | | | | | PO ₄ , | | Coliform (Present/Absent) | 3,600 | | |
| Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other | Sampler: JB | □ No | / TMB's (8021) | s/8082 | 04.1) or 827 | | NO ₂ , | (A) | Prese | | | |
| □ EDD (Type) | # of Goolers: 2 | 1-6-6 01=66 | MTBE | cide | 310 | etals | NO Z | . Y C | E | | | |
| Date Time Matrix Sample Name | Cooler Temp(hecoling cF): 6 Container Preservative Type and # Type | 4-0.1=05 (°C) HEAL NO. ZIO4BOG | RTEX/ M | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) PAHs by 8310 or 8270SIMS | RCRA 8 Metals | (C), F, Br, NO ₃ , | 8270 (Semi-VOA) | Total Colifc | (H) | | |
| 4-26 10:20 soil BG21-01 2' | 407 108 | 001 | | | | | | | | | | |
| 1 10:25 BG21 "O2 2" | 1 1 1 1 | OOZ | | | | | | | | | | |
| (10:30 BG21 -03 2' | | CO23 | | | | | | | | | | |
| 4-26 1035 1 BG21-04 21 | 1 1 | COOL | 7 | | | | 1 | | | | | |
| | | | | | | | | - | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | - | _ | \vdash | | | | | - | +- |
| | | | _ | + | | | | | | | | - - |
| | | | $\vdash \vdash$ | | | \vdash | | | | | + | - - |
| Date: Time: Relinquished by: | Received by: Via: | Date Time / 70 /90 | Remar | L I ks: | Cc | : 1 | n. Pe | P. | L L | | | |
| Date: Time: Relinquished by: Received by: Via: Date Time Was (91) Thomas Am Cur comier Hostu 0734 BTA Oil | | | | | | | | | | | | |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

May 04, 2021

Monica Peppin Vertex Resource Group Ltd. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX:

RE: RGA 3 OrderNo.: 2104B59

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/28/2021 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 www.hallenvironmental.com 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-06 0-0.5'

 Project:
 RGA 3
 Collection Date: 4/23/2021 10:25:00 AM

 Lab ID:
 2104B59-001
 Matrix: SOIL
 Received Date: 4/28/2021 8:00:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed |
|-------------------------------------|---------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANICS | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 4/30/2021 5:11:11 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 4/30/2021 5:11:11 PM |
| Surr: DNOP | 0.190 | 70-130 | S | %Rec | 1 | 4/30/2021 5:11:11 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 110 | 60 | | mg/Kg | 20 | 4/30/2021 3:57:24 PM |
| EPA METHOD 8260B: VOLATILES SHORT I | LIST | | | | | Analyst: JMR |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 4/30/2021 4:43:42 AM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 4/30/2021 4:43:42 AM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 4/30/2021 4:43:42 AM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 4/30/2021 4:43:42 AM |
| Surr: 1,2-Dichloroethane-d4 | 85.8 | 70-130 | | %Rec | 1 | 4/30/2021 4:43:42 AM |
| Surr: 4-Bromofluorobenzene | 99.9 | 70-130 | | %Rec | 1 | 4/30/2021 4:43:42 AM |
| Surr: Dibromofluoromethane | 103 | 70-130 | | %Rec | 1 | 4/30/2021 4:43:42 AM |
| Surr: Toluene-d8 | 92.0 | 70-130 | | %Rec | 1 | 4/30/2021 4:43:42 AM |
| EPA METHOD 8015D MOD: GASOLINE RAM | IGE | | | | | Analyst: JMR |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 4/30/2021 4:43:42 AM |
| Surr: BFB | 111 | 70-130 | | %Rec | 1 | 4/30/2021 4:43:42 AM |

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

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 Limit

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Date Reported: 5/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Client Sample ID: BH21-07 0-0.5'

 Project:
 RGA 3
 Collection Date: 4/23/2021 10:30:00 AM

 Lab ID:
 2104B59-002
 Matrix: SOIL
 Received Date: 4/28/2021 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 24 | 9.7 | | mg/Kg | 1 | 4/30/2021 5:20:49 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 4/30/2021 5:20:49 PM |
| Surr: DNOP | 6.21 | 70-130 | S | %Rec | 1 | 4/30/2021 5:20:49 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 160 | 60 | | mg/Kg | 20 | 4/30/2021 4:09:48 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIS | т | | | | | Analyst: JMR |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 4/30/2021 5:12:16 AM |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 4/30/2021 5:12:16 AM |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 4/30/2021 5:12:16 AM |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 4/30/2021 5:12:16 AM |
| Surr: 1,2-Dichloroethane-d4 | 87.9 | 70-130 | | %Rec | 1 | 4/30/2021 5:12:16 AM |
| Surr: 4-Bromofluorobenzene | 96.6 | 70-130 | | %Rec | 1 | 4/30/2021 5:12:16 AM |
| Surr: Dibromofluoromethane | 98.3 | 70-130 | | %Rec | 1 | 4/30/2021 5:12:16 AM |
| Surr: Toluene-d8 | 95.6 | 70-130 | | %Rec | 1 | 4/30/2021 5:12:16 AM |
| EPA METHOD 8015D MOD: GASOLINE RANG | E | | | | | Analyst: JMR |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 4/30/2021 5:12:16 AM |
| Surr: BFB | 108 | 70-130 | | %Rec | 1 | 4/30/2021 5:12:16 AM |

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

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 Limit

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Date Reported: 5/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Client Sample ID: BH21-09 0-0.5'

 Project:
 RGA 3
 Collection Date: 4/23/2021 11:05:00 AM

 Lab ID:
 2104B59-003
 Matrix: SOIL
 Received Date: 4/28/2021 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 4/30/2021 5:30:25 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 4/30/2021 5:30:25 PM |
| Surr: DNOP | 0.780 | 70-130 | S | %Rec | 1 | 4/30/2021 5:30:25 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 330 | 61 | | mg/Kg | 20 | 5/3/2021 11:40:14 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: JMR |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 4/30/2021 5:40:49 AM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 4/30/2021 5:40:49 AM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 4/30/2021 5:40:49 AM |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 4/30/2021 5:40:49 AM |
| Surr: 1,2-Dichloroethane-d4 | 85.7 | 70-130 | | %Rec | 1 | 4/30/2021 5:40:49 AM |
| Surr: 4-Bromofluorobenzene | 94.9 | 70-130 | | %Rec | 1 | 4/30/2021 5:40:49 AM |
| Surr: Dibromofluoromethane | 100 | 70-130 | | %Rec | 1 | 4/30/2021 5:40:49 AM |
| Surr: Toluene-d8 | 97.1 | 70-130 | | %Rec | 1 | 4/30/2021 5:40:49 AM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: JMR |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 4/30/2021 5:40:49 AM |
| Surr: BFB | 110 | 70-130 | | %Rec | 1 | 4/30/2021 5:40:49 AM |

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

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 Limit

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Date Reported: 5/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-10 0-0.5'

 Project:
 RGA 3
 Collection Date: 4/23/2021 11:10:00 AM

 Lab ID:
 2104B59-004
 Matrix: SOIL
 Received Date: 4/28/2021 8:00:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed |
|--|---------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE O | RGANICS | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 4/30/2021 5:40:06 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 4/30/2021 5:40:06 PM |
| Surr: DNOP | 1.15 | 70-130 | S | %Rec | 1 | 4/30/2021 5:40:06 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 150 | 59 | | mg/Kg | 20 | 5/3/2021 11:52:38 AM |
| EPA METHOD 8260B: VOLATILES SHORT | LIST | | | | | Analyst: JMR |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 4/30/2021 6:09:24 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/30/2021 6:09:24 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/30/2021 6:09:24 AM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 4/30/2021 6:09:24 AM |
| Surr: 1,2-Dichloroethane-d4 | 89.5 | 70-130 | | %Rec | 1 | 4/30/2021 6:09:24 AM |
| Surr: 4-Bromofluorobenzene | 95.8 | 70-130 | | %Rec | 1 | 4/30/2021 6:09:24 AM |
| Surr: Dibromofluoromethane | 105 | 70-130 | | %Rec | 1 | 4/30/2021 6:09:24 AM |
| Surr: Toluene-d8 | 95.0 | 70-130 | | %Rec | 1 | 4/30/2021 6:09:24 AM |
| EPA METHOD 8015D MOD: GASOLINE RA | NGE | | | | | Analyst: JMR |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/30/2021 6:09:24 AM |
| Surr: BFB | 110 | 70-130 | | %Rec | 1 | 4/30/2021 6:09:24 AM |

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

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 Limit

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CLIENT: Vertex Resource Group Ltd.

Analytical Report Lab Order 2104B59

Date Reported: 5/4/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-05 0'

 Project:
 RGA 3
 Collection Date: 4/23/2021 10:20:00 AM

 Lab ID:
 2104B59-005
 Matrix: SOIL
 Received Date: 4/28/2021 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGAI | NICS | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 33 | 9.6 | | mg/Kg | 1 | 4/30/2021 5:49:53 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 4/30/2021 5:49:53 PM |
| Surr: DNOP | 2.21 | 70-130 | S | %Rec | 1 | 4/30/2021 5:49:53 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 110 | 60 | | mg/Kg | 20 | 5/3/2021 12:05:02 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: JMR |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 4/30/2021 6:38:01 AM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 4/30/2021 6:38:01 AM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 4/30/2021 6:38:01 AM |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 4/30/2021 6:38:01 AM |
| Surr: 1,2-Dichloroethane-d4 | 89.0 | 70-130 | | %Rec | 1 | 4/30/2021 6:38:01 AM |
| Surr: 4-Bromofluorobenzene | 100 | 70-130 | | %Rec | 1 | 4/30/2021 6:38:01 AM |
| Surr: Dibromofluoromethane | 102 | 70-130 | | %Rec | 1 | 4/30/2021 6:38:01 AM |
| Surr: Toluene-d8 | 97.3 | 70-130 | | %Rec | 1 | 4/30/2021 6:38:01 AM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: JMR |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 4/30/2021 6:38:01 AM |
| Surr: BFB | 113 | 70-130 | | %Rec | 1 | 4/30/2021 6:38:01 AM |

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

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 Limit

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Date Reported: 5/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-05 0.5'

 Project:
 RGA 3
 Collection Date: 4/23/2021 10:40:00 AM

 Lab ID:
 2104B59-006
 Matrix: SOIL
 Received Date: 4/28/2021 8:00:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 4/30/2021 5:59:42 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 4/30/2021 5:59:42 PM |
| Surr: DNOP | 1.53 | 70-130 | S | %Rec | 1 | 4/30/2021 5:59:42 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 100 | 60 | | mg/Kg | 20 | 5/3/2021 12:17:26 PM |
| EPA METHOD 8260B: VOLATILES SHORT L | IST | | | | | Analyst: JMR |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 4/30/2021 7:06:33 AM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 4/30/2021 7:06:33 AM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 4/30/2021 7:06:33 AM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 4/30/2021 7:06:33 AM |
| Surr: 1,2-Dichloroethane-d4 | 84.0 | 70-130 | | %Rec | 1 | 4/30/2021 7:06:33 AM |
| Surr: 4-Bromofluorobenzene | 96.3 | 70-130 | | %Rec | 1 | 4/30/2021 7:06:33 AM |
| Surr: Dibromofluoromethane | 99.7 | 70-130 | | %Rec | 1 | 4/30/2021 7:06:33 AM |
| Surr: Toluene-d8 | 98.6 | 70-130 | | %Rec | 1 | 4/30/2021 7:06:33 AM |
| EPA METHOD 8015D MOD: GASOLINE RANG | GE | | | | | Analyst: JMR |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 4/30/2021 7:06:33 AM |
| Surr: BFB | 110 | 70-130 | | %Rec | 1 | 4/30/2021 7:06:33 AM |

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

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 Limit

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Date Reported: 5/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-08 0'

 Project:
 RGA 3
 Collection Date: 4/23/2021 10:35:00 AM

 Lab ID:
 2104B59-007
 Matrix: SOIL
 Received Date: 4/28/2021 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------------|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 1900 | 93 | | mg/Kg | 10 | 4/30/2021 7:18:51 PM |
| Motor Oil Range Organics (MRO) | 1500 | 460 | | mg/Kg | 10 | 4/30/2021 7:18:51 PM |
| Surr: DNOP | 0 | 70-130 | S | %Rec | 10 | 4/30/2021 7:18:51 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 170 | 60 | | mg/Kg | 20 | 5/3/2021 12:29:51 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIS | ST | | | | | Analyst: JMR |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 4/30/2021 7:35:07 AM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 4/30/2021 7:35:07 AM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 4/30/2021 7:35:07 AM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 4/30/2021 7:35:07 AM |
| Surr: 1,2-Dichloroethane-d4 | 87.6 | 70-130 | | %Rec | 1 | 4/30/2021 7:35:07 AM |
| Surr: 4-Bromofluorobenzene | 86.8 | 70-130 | | %Rec | 1 | 4/30/2021 7:35:07 AM |
| Surr: Dibromofluoromethane | 104 | 70-130 | | %Rec | 1 | 4/30/2021 7:35:07 AM |
| Surr: Toluene-d8 | 93.8 | 70-130 | | %Rec | 1 | 4/30/2021 7:35:07 AM |
| EPA METHOD 8015D MOD: GASOLINE RANG | βE | | | | | Analyst: JMR |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 4/30/2021 7:35:07 AM |
| Surr: BFB | 109 | 70-130 | | %Rec | 1 | 4/30/2021 7:35:07 AM |

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

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 Limit

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Date Reported: 5/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-08 2'

 Project:
 RGA 3
 Collection Date: 4/23/2021 11:00:00 AM

 Lab ID:
 2104B59-008
 Matrix: SOIL
 Received Date: 4/28/2021 8:00:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 4/30/2021 6:09:32 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 4/30/2021 6:09:32 PM |
| Surr: DNOP | 1.16 | 70-130 | S | %Rec | 1 | 4/30/2021 6:09:32 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: VP |
| Chloride | 84 | 60 | | mg/Kg | 20 | 5/3/2021 12:42:15 PM |
| EPA METHOD 8260B: VOLATILES SHORT L | IST | | | | | Analyst: JMR |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/30/2021 8:03:46 AM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 4/30/2021 8:03:46 AM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 4/30/2021 8:03:46 AM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 4/30/2021 8:03:46 AM |
| Surr: 1,2-Dichloroethane-d4 | 84.5 | 70-130 | | %Rec | 1 | 4/30/2021 8:03:46 AM |
| Surr: 4-Bromofluorobenzene | 93.9 | 70-130 | | %Rec | 1 | 4/30/2021 8:03:46 AM |
| Surr: Dibromofluoromethane | 101 | 70-130 | | %Rec | 1 | 4/30/2021 8:03:46 AM |
| Surr: Toluene-d8 | 97.7 | 70-130 | | %Rec | 1 | 4/30/2021 8:03:46 AM |
| EPA METHOD 8015D MOD: GASOLINE RANG | GE | | | | | Analyst: JMR |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 4/30/2021 8:03:46 AM |
| Surr: BFB | 110 | 70-130 | | %Rec | 1 | 4/30/2021 8:03:46 AM |

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

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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104B59** *04-May-21*

Client: Vertex Resource Group Ltd.

Project: RGA 3

Sample ID: MB-59736 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59736 RunNo: 77066

Prep Date: 4/30/2021 Analysis Date: 4/30/2021 SeqNo: 2732225 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59736 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59736 RunNo: 77066

Prep Date: 4/30/2021 Analysis Date: 4/30/2021 SeqNo: 2732226 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 90.0 90 110

Sample ID: LCS-59759 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59759 RunNo: 77110

Prep Date: 5/3/2021 Analysis Date: 5/3/2021 SeqNo: 2733792 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.9 90 110

Sample ID: MB-59759 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59759 RunNo: 77110

Prep Date: 5/3/2021 Analysis Date: 5/3/2021 SeqNo: 2733793 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

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 Limit

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Hall Environmental Analysis Laboratory, Inc.

5.9

WO#: **2104B59**

04-May-21

Client: Vertex Resource Group Ltd.

Project: RGA 3

Surr: DNOP

Sample ID: MB-59723 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 59723 RunNo: 77092 Prep Date: 4/29/2021 Analysis Date: 5/3/2021 SeqNo: 2733162 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10.00 70 11 113 130

Sample ID: LCS-59723 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 59723 RunNo: 77092 Prep Date: 4/29/2021 Analysis Date: 5/3/2021 SeqNo: 2733163 Units: mg/Kg SPK value SPK Ref Val %REC Analyte PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 61 10 50.00 122 68.9 141

117

70

130

5.000

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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104B59**

04-May-21

Client: Vertex Resource Group Ltd.

Project: RGA 3

| Sample ID: Ics-59695 SampType: LCS4 TestCode: EPA Me | | | | | | | lethod 8260B: Volatiles Short List | | | | | | |
|--|----------------------|-----------|-----------|-------------|---------------------|----------|------------------------------------|------|----------|------|--|--|--|
| Client ID: BatchQC | chQC Batch ID: 59695 | | | | RunNo: 77056 | | | | | | | | |
| Prep Date: 4/28/2021 | Analysis D | Date: 4/2 | 29/2021 | S | SeqNo: 2 | 731350 | Units: mg/k | ίg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | | |
| Benzene | 1.0 | 0.025 | 1.000 | 0 | 101 | 80 | 120 | | | | | | |
| Toluene | 0.95 | 0.050 | 1.000 | 0 | 94.6 | 80 | 120 | | | | | | |
| Ethylbenzene | 0.98 | 0.050 | 1.000 | 0 | 97.8 | 80 | 120 | | | | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 95.2 | 80 | 120 | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.45 | | 0.5000 | | 90.4 | 70 | 130 | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.50 | | 0.5000 | | 100 | 70 | 130 | | | | | | |
| Surr: Dibromofluoromethane | 0.52 | | 0.5000 | | 104 | 70 | 130 | | | | | | |
| Surr: Toluene-d8 | 0.47 | | 0.5000 | | 93.3 | 70 | 130 | | | | | | |

| Sample ID: mb-59695 | Samp ⁻ | Гуре: МЕ | BLK | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | |
|-----------------------------|-------------------|-----------------|-----------|--|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 59695 | | | F | RunNo: 77056 | | | | | |
| Prep Date: 4/28/2021 | Analysis [| Date: 4/ | 29/2021 | SeqNo: 2731351 Units: mg/Kg | | | | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.43 | | 0.5000 | | 86.1 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.48 | | 0.5000 | | 96.8 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.50 | | 0.5000 | | 99.4 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.46 | | 0.5000 | | 91.9 | 70 | 130 | | | |

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

- 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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104B59**

04-May-21

Client: Vertex Resource Group Ltd.

Project: RGA 3

Sample ID: Ics-59695 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 59695 RunNo: 77056

Prep Date: 4/28/2021 Analysis Date: 4/29/2021 SeqNo: 2731467 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 25
 5.0
 25.00
 0
 101
 70
 130

 Surr: BFB
 560
 500.0
 111
 70
 130

Sample ID: mb-59695 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **PBS** Batch ID: **59695** RunNo: **77056**

Prep Date: 4/28/2021 Analysis Date: 4/29/2021 SeqNo: 2731469 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 540 500.0 108 70 130

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 Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resource Group Work Order Number: 2104B59 RcptNo: 1 Received By: Cheyenne Cason 4/28/2021 8:00:00 AM Completed By: Cheyenne Cason 4/28/2021 9:12:56 AM Reviewed By: 4/28/21 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🔽 No 🗌 NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C No 🗆 Yes 🔽 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? Yes 🔽 No 🗌 7. Are samples (except VOA and ONG) properly preserved? ~ No 🗌 8. Was preservative added to bottles? Yes 🗌 No 🗸 NA \square 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No . NA 🔽 10. Were any sample containers received broken? Yes No 🗹 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗆 13. Is it clear what analyses were requested? No 🗌 Yes 🗹 14. Were all holding times able to be met? Yes 🗸 No 🗌 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 No \square NA 🗸 Person Notified: Date: By Whom: Via: ☐ eMail ☐ Phone ☐ Fax Regarding: Client Instructions: Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date Signed By Good

| Chain-of-Custody Record | Turn-Around Time: 5 Day | HALL ENVIRONMENTAL |
|--|--|---|
| Client: Vertex | ☐ Standard □ Rush | HALL ENVIRONMENTAL ANALYSIS LABORATORY |
| | Project Name: | www.hallenvironmental.com |
| Mailing Address: | PGA #3 | 4901 Hawkins NE - Albuquerque, NM 87109 |
| | Project #: | Tel. 505-345-3975 Fax 505-345-4107 |
| Phone #: | 21E-01340 | Analysis Request |
| email or Fax#: | Project Manager: | SO ₄ SO ₄ SO ₄ |
| QA/QC Package: | Monica Peppin | MTBE / TMB's (8021) 3015D(GRO / DRO / MRO) Pesticides/8082 PCB's (Method 504.1) by 8310 or 8270SIMS A 8 Metals Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ (VOA) (Semi-VOA) Coliform (Present/Absent) |
| ☐ Standard ☐ Level 4 (Full Validation) | <u> </u> | 18 8 2 2 8 18 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Accreditation: Az Compliance | Sampler: CD | TMB 10 / DR 8082 8082 8082 (1) NO ₂ , NO ₂ , |
| ☐ NELAC ☐ Other ☐ EDD (Type) | On Ice: 29 Yes I No # of Coolers: \ | Cicides/ icides/ icides/ NO3, A) NO3, A) |
| | Cooler Temp(including CF): 4(1 -6.2 = 3.4 (°C) | BTEX) MTBE / TMB TPH:8015D(GRO / DR 8081 Pesticides/8082 EDB (Method 504.1) PAHs by 8310 or 8270 CJ)F, Br, NO ₃ , NO ₂ , 8260 (VOA) COMPANIENT (Preservatal Coliform (Preservata |
| 1 1 1 | Container Preservative HEAL No. | BTEX) MTI TPH:8015D(8081 Pestic EDB (Metho EDB (Metho CJ)F, Br, N 8260 (VOA) 8270 (Semi- |
| Date Time Matrix Sample Name | Type and # Type 2104354 | BTEX B081 B B081 B B260 (C) F, CO F, |
| 423 10:25 50:1 BH21-06 0-0.5 | | |
| 10:30 BH21-07 0-0.5 | | |
| 11:05 BH21-09 0-0.5 | · | |
| 11/10 BH21-10 0-0.5 | l coy | |
| 10:30 BH21-05 0 | 005 | |
| 10:40 BH21-05 0.5" | 006 | |
| 10:35 BH21-08 0' | 007 | |
| 11:00 BHAL 08 3' | ce8 | |
| 1 11:25 30:1 131-08 2.5 | 402 160 | |
| | | |
| | | |
| | | |
| Date: Time: Relinquished by: | Received by: // Via. Date Time | Remarks: CC: M. Peppin |
| Date: Time: Relinquished by: | Received by: Via: Date Time | 9 |
| W/ 1 PA | Car cum 4/28/2 0800 | RTA MO |
| | | nis possibility. Any sub-contracted data will be clearly notated on the analytical report. |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

May 05, 2021

Monica Peppin Vertex Resource Group Ltd. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX

RE: RGA 3 OrderNo.: 2104D06

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/30/2021 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 www.hallenvironmental.com 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-01 2'

 Project:
 RGA 3
 Collection Date: 4/28/2021 10:05:00 AM

 Lab ID:
 2104D06-001
 Matrix: SOIL
 Received Date: 4/30/2021 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------|--------|----------|----|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANICS | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 8.8 | mg/Kg | 1 | 5/4/2021 7:29:39 PM |
| Motor Oil Range Organics (MRO) | ND | 44 | mg/Kg | 1 | 5/4/2021 7:29:39 PM |
| Surr: DNOP | 96.0 | 70-130 | %Rec | 1 | 5/4/2021 7:29:39 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/3/2021 9:52:19 PM |
| Surr: BFB | 91.4 | 70-130 | %Rec | 1 | 5/3/2021 9:52:19 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/3/2021 9:52:19 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/3/2021 9:52:19 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/3/2021 9:52:19 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/3/2021 9:52:19 PM |
| Surr: 4-Bromofluorobenzene | 103 | 70-130 | %Rec | 1 | 5/3/2021 9:52:19 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: VP |
| Chloride | 160 | 60 | mg/Kg | 20 | 5/4/2021 2:50:40 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- 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 Limit

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Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Client Sample ID: BS21-02 0.5

 Project:
 RGA 3
 Collection Date: 4/28/2021 10:10:00 AM

 Lab ID:
 2104D06-002
 Matrix:
 SOIL
 Received Date: 4/30/2021 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|------------------------------------|----------|--------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE C | ORGANICS | | | | Analyst: SB |
| Diesel Range Organics (DRO) | 39 | 8.7 | mg/Kg | 1 | 5/4/2021 7:39:40 PM |
| Motor Oil Range Organics (MRO) | 49 | 44 | mg/Kg | 1 | 5/4/2021 7:39:40 PM |
| Surr: DNOP | 112 | 70-130 | %Rec | 1 | 5/4/2021 7:39:40 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/3/2021 10:15:53 PM |
| Surr: BFB | 89.7 | 70-130 | %Rec | 1 | 5/3/2021 10:15:53 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/3/2021 10:15:53 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/3/2021 10:15:53 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/3/2021 10:15:53 PM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/3/2021 10:15:53 PM |
| Surr: 4-Bromofluorobenzene | 99.8 | 70-130 | %Rec | 1 | 5/3/2021 10:15:53 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: VP |
| Chloride | 160 | 60 | mg/Kg | 20 | 5/4/2021 3:03:04 PM |

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

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 Limit

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Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-01 0-2'

 Project:
 RGA 3
 Collection Date: 4/28/2021 10:20:00 AM

 Lab ID:
 2104D06-003
 Matrix: SOIL
 Received Date: 4/30/2021 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|--------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 8.9 | mg/Kg | 1 | 5/4/2021 7:59:29 PM |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 5/4/2021 7:59:29 PM |
| Surr: DNOP | 91.5 | 70-130 | %Rec | 1 | 5/4/2021 7:59:29 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/3/2021 10:39:23 PM |
| Surr: BFB | 89.4 | 70-130 | %Rec | 1 | 5/3/2021 10:39:23 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/3/2021 10:39:23 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/3/2021 10:39:23 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/3/2021 10:39:23 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/3/2021 10:39:23 PM |
| Surr: 4-Bromofluorobenzene | 99.4 | 70-130 | %Rec | 1 | 5/3/2021 10:39:23 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: VP |
| Chloride | 240 | 60 | mg/Kg | 20 | 5/4/2021 3:15:29 PM |

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

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 Limit

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Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-02 0-2'

 Project:
 RGA 3
 Collection Date: 4/28/2021 10:25:00 AM

 Lab ID:
 2104D06-004
 Matrix: SOIL
 Received Date: 4/30/2021 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|--------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 5/4/2021 8:09:31 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/4/2021 8:09:31 PM |
| Surr: DNOP | 101 | 70-130 | %Rec | 1 | 5/4/2021 8:09:31 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/3/2021 11:02:50 PM |
| Surr: BFB | 90.1 | 70-130 | %Rec | 1 | 5/3/2021 11:02:50 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/3/2021 11:02:50 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/3/2021 11:02:50 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/3/2021 11:02:50 PM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/3/2021 11:02:50 PM |
| Surr: 4-Bromofluorobenzene | 100 | 70-130 | %Rec | 1 | 5/3/2021 11:02:50 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: VP |
| Chloride | 100 | 59 | mg/Kg | 20 | 5/4/2021 3:27:53 PM |

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

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 Limit

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Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-03 0-0.5'

 Project:
 RGA 3
 Collection Date: 4/28/2021 10:30:00 AM

 Lab ID:
 2104D06-005
 Matrix: SOIL
 Received Date: 4/30/2021 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------|--------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANICS | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/4/2021 8:19:26 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/4/2021 8:19:26 PM |
| Surr: DNOP | 92.8 | 70-130 | %Rec | 1 | 5/4/2021 8:19:26 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/3/2021 11:26:29 PM |
| Surr: BFB | 90.7 | 70-130 | %Rec | 1 | 5/3/2021 11:26:29 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/3/2021 11:26:29 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/3/2021 11:26:29 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/3/2021 11:26:29 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/3/2021 11:26:29 PM |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | %Rec | 1 | 5/3/2021 11:26:29 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: VP |
| Chloride | 150 | 60 | mg/Kg | 20 | 5/4/2021 3:40:18 PM |

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

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 Limit

Page 5 of 10

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-04 0-2'

 Project:
 RGA 3
 Collection Date: 4/28/2021 10:35:00 AM

 Lab ID:
 2104D06-006
 Matrix:
 SOIL
 Received Date: 4/30/2021 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|------------------------------------|---------|--------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE C | RGANICS | | | | Analyst: SB |
| Diesel Range Organics (DRO) | ND | 7.8 | mg/Kg | 1 | 5/4/2021 8:29:24 PM |
| Motor Oil Range Organics (MRO) | ND | 39 | mg/Kg | 1 | 5/4/2021 8:29:24 PM |
| Surr: DNOP | 95.4 | 70-130 | %Rec | 1 | 5/4/2021 8:29:24 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/3/2021 11:50:08 PM |
| Surr: BFB | 90.7 | 70-130 | %Rec | 1 | 5/3/2021 11:50:08 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/3/2021 11:50:08 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/3/2021 11:50:08 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/3/2021 11:50:08 PM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/3/2021 11:50:08 PM |
| Surr: 4-Bromofluorobenzene | 102 | 70-130 | %Rec | 1 | 5/3/2021 11:50:08 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: VP |
| Chloride | 140 | 59 | mg/Kg | 20 | 5/4/2021 3:52:42 PM |

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

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 Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104D06**

05-May-21

Client: Vertex Resource Group Ltd.

Project: RGA 3

Sample ID: MB-59801 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59801 RunNo: 77141

Prep Date: 5/4/2021 Analysis Date: 5/4/2021 SeqNo: 2735343 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59801 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59801 RunNo: 77141

Prep Date: 5/4/2021 Analysis Date: 5/4/2021 SeqNo: 2735344 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.1 90 110

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 Limit

Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

2104D06 05-May-21

WO#:

Client: Vertex Resource Group Ltd.

Project: RGA 3

Sample ID: MB-59808 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 59808 RunNo: 77124

Prep Date: 5/4/2021 Analysis Date: 5/4/2021 SeqNo: 2735768 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.6 10.00 95.8 70 130

Sample ID: LCS-59808 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 59808 RunNo: 77124

Prep Date: 5/4/2021 Analysis Date: 5/4/2021 SeqNo: 2735769 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Diesel Range Organics (DRO)
 49
 10
 50.00
 0
 98.8
 68.9
 141

 Surr: DNOP
 4.7
 5.000
 93.2
 70
 130

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 Limit

Page 8 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **2104D06**

05-May-21

Client: Vertex Resource Group Ltd.

Project: RGA 3

Surr: BFB

Sample ID: mb-59749 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 59749 RunNo: 77102

Prep Date: 4/30/2021 Analysis Date: 5/3/2021 SeqNo: 2733595 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 910 1000 90.9 70 130

Sample ID: Ics-59749 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: LCSS Batch ID: 59749 RunNo: 77102

1000

Prep Date: 4/30/2021 Analysis Date: 5/3/2021 SeqNo: 2733601 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 5.0 25.00 0 90.0 78.6 131

100

70

130

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 Limit

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Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: **2104D06** *05-May-21*

Client: Vertex Resource Group Ltd.

Project: RGA 3

Surr: 4-Bromofluorobenzene

Sample ID: mb-59749 SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBS Client ID: Batch ID: 59749 RunNo: 77102 Prep Date: 4/30/2021 Analysis Date: 5/3/2021 SeqNo: 2733712 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Benzene ND 0.025 Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10

101

70

130

Sample ID: LCS-59749 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 59749 RunNo: 77102 Prep Date: 4/30/2021 Analysis Date: 5/3/2021 SeqNo: 2733713 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 1.000 0 96.5 80 120 0.97 Benzene Toluene 0.98 0.050 1.000 0 98.4 80 120 0.050 0 97.7 80 120 Ethylbenzene 0.98 1.000 2.9 0.10 3.000 0 97.7 80 120 Xylenes, Total Surr: 4-Bromofluorobenzene 1.0 1.000 100 70 130

1.000

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 Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

| Client Name: | Vertex Resource Group Ltd. | Work Order Num | ber: 210 | 04D06 | | RcptNo | : 1 |
|------------------------|--|---------------------|-----------------------|----------------------|---|----------------------------|---------------------|
| Received By: | Juan Rojas | 4/30/2021 7:35:00 | AM | | George (| L | |
| Completed By: | Cheyenne Cason | 4/30/2021 8:04:07 | AM | | Chents | | |
| Reviewed By: | ENH | 4/30/21 | | | Que | | |
| Chain of Cust | tody | | | | | | |
| 1. Is Chain of Cu | stody complete? | | Yes | V | No 🗌 | Not Present | |
| 2. How was the s | sample delivered? | | Cou | ırier | | | |
| Log In | | | | | | | |
| | pt made to cool the samples | ? | Yes | ✓ | No 🗌 | NA 🗌 | |
| 4. Were all sample | les received at a temperatur | e of >0° C to 6.0°C | Yes | V | No 🗌 | NA 🗆 | |
| 5. Sample(s) in p | roper container(s)? | | Yes | V | No 🗌 | | |
| 6. Sufficient samp | ole volume for indicated test | s)? | Yes | ✓ | No 🗌 | | |
| 7. Are samples (e | xcept VOA and ONG) prope | rly preserved? | Yes | V | No 🗌 | | |
| 8. Was preservati | ve added to bottles? | | Yes | | No 🗸 | NA 🗌 | |
| | st 1 vial with headspace <1/ | | Yes | | No 🗌 | NA 🗹 | 7=7 |
| 10. Were any sam | ple containers received brok | en? | Yes | | No 🗸 | # of preserved | _(() |
| | k match bottle labels? | | Yes | V | No 🗆 | bottles checked for pH: | 4 30 - |
| 12. Are matrices co | rrectly identified on Chain of | Custody? | Yes | V | No 🗌 | Adjusted? | - La dilloco Hotody |
| 13. Is it clear what a | analyses were requested? | | Yes | V | No 🗌 | | |
| | g times able to be met? stomer for authorization.) | | Yes | ✓ | No 🗌 | Checked by: | |
| | ng (if applicable) | | | | | | |
| 15. Was client notif | fied of all discrepancies with | this order? | Yes | | No 🗌 | NA 🗸 | |
| Person N | otified: | Date: | | - Complete | A MANAGEMENT CONTRACTOR OF THE PARTY OF THE | | |
| By Whom | 1: | Via: | eMa | ail 🗀 | Phone Fax | In Person | |
| Regarding | g: | | | | | | |
| Client Ins | tructions: | | Miles desperate and a | or a free reconstant | | | |
| 16. Additional rema | arks: | | | | | | |
| 17. Cooler Inform | Carried Transport of the | | | | | | |
| Cooler No | Temp °C Condition S | eal Intact Seal No | Seal Da | ate | Signed By | | |

| Chain-of-Cu Client: Vertex Mailing Address: 7 | stody Record | Turn-Around Standard Project Name Project #: | e: | | HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 | | | | | | | | | | | | |
|---|---|---|---|--|--|----------------------------|----------------------------|-------------|------------------|------------------------|------------|-----------------|---------------------------------|----|---|----------|----------------|
| Phone #: | | 21E-01 | 1340 | | 1el. 505-345-3975 Fax 505-345-4107 Analysis Request | | | | | 2021 | | | | | | | |
| email or Fax#: | - | Project Mana | | | | <u>0</u> | | | | SO | | | ıt) | | | | 2:3 |
| QA/QC Package: □ Standard | □ Level 4 (Full Validation) mpliance | Sampler: J On Ice: # of Coolers: | 9 Paper | □ No | TBE / TMB's (8021) | (PH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | 8 | 3310 or 8270SIMS | NO ₂ , PO₄, | | ni-VOA) | Total Coliform (Present/Absent) | | | | 2:38:53 PM |
| Date Time Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. ZICH DOG | -BTEX / MTBE | ~ (TRH:8015 | 8081 Pest | EDB (Method | PAHs by 8310 | CNF. Br. NO3. | 8260 (VOA) | 8270 (Semi-VOA) | Total Colif | | | | |
| 188 10:05 Soil | 13581-01 8 | 402 | ice | œl | 1 | Н | _ | \dashv | + | + | - | - | \vdash | _ | + | \vdash | + |
| 10:10 | BS21-02 0.5' WS21-01 0-2 WS21-02 0-2 WS21-03 0-0.5 | | | 007 003 004 005 | | | | | | | | | | | | | |
| | , | | | | | , | | | | | | | | | | | |
| Date: Time: Relinquish Date: Time: Relinquish HAM HOW A CAM | | Received by: | Via: Via: Via: Via: Via: Via: Via: Via: | Date Time 4 2 14 14 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15 | | nark: | s: | CC | <u> </u> | noi | nic | 9 1 | Repp | rn | | | Page 102 of 13 |

ATTACHMENT 8



NAME OF Location & Release date

RGA #3 3/15/2021

OCD TRACKING #: nAPP2107450435

| | | | | Field Sc | reening | | | | | Labor | atory Resul | ts | | | | |
|----------|-----------------------|---------|------------|----------|-----------|----------|-----------|-----------|---------|---------|-------------|---------|---------|---------|---------|---------|
| Location | GPS Coordinates | Sample | Sample | PID | Titration | | | TPH | | | | Ethyl- | Total | TPH | TPH | TPH |
| Location | GPS Coordinates | Date | Depth | Result | Result | Chloride | Total TPH | GRO + DRO | BTEX | Benzene | Toluene | benzene | Xylenes | GRO | DRO | Ext DRO |
| | | | (feet BGS) | (PPM) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| SP 1 | 32.300307 -104.064139 | 3/26/21 | Surface | >15,000 | 7,147 | 6,960 | 23,686 | 19,716 | 7.33 | <0.050 | 0.376 | 1.02 | 5.93 | 316 | 19,400 | 3,970 |
| SP 1 | | 4/16/21 | 1 | - | - | 640 | 66.7 | 66.7 | < 0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | 66.7 | <10.0 |
| SP 2 | 32.300296 -104.064110 | 3/26/21 | Surface | >15,000 | 1,574 | 1,260 | 6,109 | 5,059.30 | 0.699 | <0.050 | <0.050 | 0.079 | 0.62 | 59.3 | 5,000 | 1,050 |
| SP 2 | | 4/16/21 | 1 | - | - | 944 | 70 | 70 | <0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | 70 | <10.0 |
| SP 3 | 32.300326 -104.064111 | 3/26/21 | Surface | >15,000 | 249 | 128 | 18,134 | 15,544 | 30 | <0.100 | 2.07 | 4.63 | 23.3 | 844 | 14,700 | 2,590 |
| SP 3 | | 4/16/21 | 1 | - | - | 1,220 | 46.7 | 46.7 | <0.300 | <0.050 | <0.050 | >0.050 | <0.150 | <10.0 | 46.7 | <10.0 |
| SP 4 | 32.300359 -104.064112 | 3/26/21 | Surface | 50 | 799 | 688 | <62.4 | <51.3 | <0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | 41.3 | 11.1 |
| SP 4 | | 4/16/21 | 1 | - | - | 960 | <30.0 | <20.0 | <0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | <10.0 | <10.0 |
| SP 5 | 32.300370 -104.064060 | 3/26/21 | Surface | 7 | 824 | 560 | <30.0 | <20.0 | < 0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | <10.0 | <10.0 |
| SP 6 | 32.300328 -104.064064 | 3/26/21 | Surface | 78.4 | 1,999 | 1,840 | <13,190 | <10,850 | <0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <50.0 | 10,800 | 2,340 |
| SP 6 | | 4/16/21 | Surface | - | - | 1,880 | <30.0 | <20.0 | <0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | <10.0 | <10.0 |
| SP 7 | 32.300291 -104.064062 | 3/26/21 | Surface | 16.8 | 3,374 | 352 | <30.0 | <20.0 | <0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | <10.0 | <10.0 |
| SP 8 | 32.300293 104.063995 | 3/26/21 | Surface | 6.7 | 524 | 368 | <30.0 | <20.0 | <0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | <10.0 | <10.0 |
| SP 8 | | 4/16/21 | Surface | - | - | 1,550 | <30.0 | <20.0 | <0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | <10.0 | <10.0 |
| SP 9 | 32.300327 -104.063994 | 3/26/21 | Surface | 7.7 | 374 | 336 | <30.0 | <20.0 | <0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | <10.0 | <10.0 |
| SP 10 | 32.300366 -104.063993 | 3/26/21 | Surface | 3.9 | 699 | 512 | <30.0 | <20.0 | <0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | <10.0 | <10.0 |
| SP 10 | | 4/16/21 | Surface | - | - | 1,640 | <30.0 | <20.0 | <0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | <10.0 | <10.0 |
| SP 11 | 32.300366 -104.063923 | 3/26/21 | Surface | 2.4 | 449 | 320 | <30.0 | <20.0 | <0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | <10.0 | <10.0 |
| SP 12 | 32.300330 -104.063920 | 3/26/21 | Surface | 2.9 | 249 | 208 | <30.0 | <20.0 | < 0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | <10.0 | <10.0 |
| SP 13 | 32.300292 -104.063917 | 3/26/21 | Surface | 3.2 | 249 | 208 | <30.0 | <20.0 | < 0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | <10.0 | <10.0 |
| SP 13 | | 4/16/21 | Surface | | | 1,720 | <30.0 | <20.0 | <0.300 | <0.050 | <0.050 | <0.050 | <0.150 | <10.0 | <10.0 | <10.0 |

NMOCD Table 1 - Closure Criteria for Soils Impacted by a Release (19.15.29.12)

Minimum Depth to GW less than 10.000 mg/l TDS

| <= 50' | 600 | 100 | - | 50 | 10 |
|------------|--------|-------|-------|----|----|
| 51' - 100' | 10,000 | 2,500 | 1,000 | 50 | 10 |
| >100' | 20,000 | 2,500 | 1,000 | 50 | 10 |

Reporting Limits:

Chloride: 16.0 mg/kg

Benzene, Toluene, Ethylbenzene: 0.050 mg/kg for each analyte

Total Xylenes: 0.150 mg/kg Total BTEX: 0.300 mg/kg

GRO (C6 - C10), DRO (>C10 - C28), Ext DRO (>C28 - C36): 10.0 mg/kg for each analyte



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

March 30, 2021

MICHAEL ALVES

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: RGA #3

Enclosed are the results of analyses for samples received by the laboratory on 03/29/21 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

BTA Oil Producers MICHAEL ALVES 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 03/29/2021 Reported: 03/30/2021

Project Name: RGA #3
Project Number: NONE GIVEN
Project Location: LEA CO NM

Sampling Date: 03/26/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H210769-01)

DTEV 0021D

| BTEX 8021B | mg, | /kg | Analyze | d By: MS | | | | | S-04 |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|--------------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.11 | 105 | 2.00 | 5.69 | |
| Toluene* | 0.376 | 0.050 | 03/29/2021 | ND | 2.06 | 103 | 2.00 | 5.67 | |
| Ethylbenzene* | 1.02 | 0.050 | 03/29/2021 | ND | 1.99 | 99.6 | 2.00 | 5.31 | |
| Total Xylenes* | 5.93 | 0.150 | 03/29/2021 | ND | 5.88 | 98.0 | 6.00 | 4.87 | |
| Total BTEX | 7.33 | 0.300 | 03/29/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 184 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6960 | 16.0 | 03/30/2021 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | S-06 |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 316 | 50.0 | 03/29/2021 | ND | 217 | 108 | 200 | 2.61 | |
| DRO >C10-C28* | 19400 | 50.0 | 03/29/2021 | ND | 223 | 111 | 200 | 3.27 | QM-07, QR-03 |
| EXT DRO >C28-C36 | 3970 | 50.0 | 03/29/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 141 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 608 | % 42.2-15 | 6 | | | | | | |

Applymed By MC

Cardinal Laboratories *=Accredited Analyte

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

Celeg & Freene

Celey D. Keene, Lab Director/Quality Manager



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

03/26/2021

Soil

Analytical Results For:

BTA Oil Producers MICHAEL ALVES 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 03/29/2021 Sampling Date: Reported: 03/30/2021 Sampling Type:

Project Name: RGA #3 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: LEA CO NM

Sample ID: SP 2 @ SURFACE (H210769-02)

| BTEX 8021B | mg/kg | | Analyzed By: MS | | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.11 | 105 | 2.00 | 5.69 | |
| Toluene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.06 | 103 | 2.00 | 5.67 | |
| Ethylbenzene* | 0.079 | 0.050 | 03/29/2021 | ND | 1.99 | 99.6 | 2.00 | 5.31 | |
| Total Xylenes* | 0.620 | 0.150 | 03/29/2021 | ND | 5.88 | 98.0 | 6.00 | 4.87 | |
| Total BTEX | 0.699 | 0.300 | 03/29/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 122 9 | 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/kg | | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1260 | 16.0 | 03/30/2021 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | | S-04 |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 59.3 | 10.0 | 03/29/2021 | ND | 217 | 108 | 200 | 2.61 | |
| DRO >C10-C28* | 5000 | 10.0 | 03/29/2021 | ND | 223 | 111 | 200 | 3.27 | |
| EXT DRO >C28-C36 | 1050 | 10.0 | 03/29/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 117 9 | 6 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 205 9 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BTA Oil Producers MICHAEL ALVES 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 03/29/2021 Reported: 03/30/2021

Project Name: RGA #3 Project Number: NONE GIVEN Project Location: LEA CO NM

Sampling Date: 03/26/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ SURFACE (H210769-03)

| BTEX 8021B | mg/kg | | Analyzed By: MS | | | | | S-04 | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.100 | 0.100 | 03/29/2021 | ND | 2.11 | 105 | 2.00 | 5.69 | | |
| Toluene* | 2.07 | 0.100 | 03/29/2021 | ND | 2.06 | 103 | 2.00 | 5.67 | | |
| Ethylbenzene* | 4.63 | 0.100 | 03/29/2021 | ND | 1.99 | 99.6 | 2.00 | 5.31 | | |
| Total Xylenes* | 23.3 | 0.300 | 03/29/2021 | ND | 5.88 | 98.0 | 6.00 | 4.87 | | |
| Total BTEX | 30.0 | 0.600 | 03/29/2021 | ND | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 229 5 | % 73.3-12 | 9 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | mg/kg | | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 128 | 16.0 | 03/30/2021 | ND | 416 | 104 | 400 | 3.92 | | |
| TPH 8015M | mg/ | 'kg | Analyze | Analyzed By: MS | | | | | S-06 | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10* | 844 | 50.0 | 03/29/2021 | ND | 217 | 108 | 200 | 2.61 | | |
| DRO >C10-C28* | 14700 | 50.0 | 03/29/2021 | ND | 223 | 111 | 200 | 3.27 | | |
| EXT DRO >C28-C36 | 2590 | 50.0 | 03/29/2021 | ND | | | | | | |
| Surrogate: 1-Chlorooctane | 189 9 | % 44.3-14 | 4 | | | | | | | |
| Surrogata: 1 Chlorocetadaeana | 306 | 0/2 12 2 15 | | | | | | | | |

Surrogate: 1-Chlorooctadecane 396 % 42.2-156

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Analytical Results For:

BTA Oil Producers MICHAEL ALVES 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 03/29/2021 Sampling Date: 03/26/2021 Reported: 03/30/2021 Sampling Type: Soil

Project Name: RGA #3 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: LEA CO NM

Sample ID: SP 4 @ SURFACE (H210769-04)

| 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 | 03/29/2021 | ND | 2.11 | 105 | 2.00 | 5.69 | |
| Toluene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.06 | 103 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/29/2021 | ND | 1.99 | 99.6 | 2.00 | 5.31 | |
| Total Xylenes* | <0.150 | 0.150 | 03/29/2021 | ND | 5.88 | 98.0 | 6.00 | 4.87 | |
| Total BTEX | <0.300 | 0.300 | 03/29/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 98.4 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 688 | 16.0 | 03/30/2021 | ND | 432 | 108 | 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 | 03/29/2021 | ND | 217 | 108 | 200 | 2.61 | |
| DRO >C10-C28* | 41.3 | 10.0 | 03/29/2021 | ND | 223 | 111 | 200 | 3.27 | |
| EXT DRO >C28-C36 | 11.1 | 10.0 | 03/29/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 75.5 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 74.5 | % 42.2-15 | 6 | | | | | | |

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03/26/2021

Analytical Results For:

BTA Oil Producers MICHAEL ALVES 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 03/29/2021 Sampling Date:

ma/ka

Reported:03/30/2021Sampling Type:SoilProject Name:RGA #3Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Tamara Oldaker

Analyzed By: MC

Project Location: LEA CO NM

Sample ID: SP 5 @ SURFACE (H210769-05)

RTFY 8021R

| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|--------|---|--|-----------------|--------|------------|---------------|--------|-----------|
| <0.050 | 0.050 | 03/29/2021 | ND | 2.11 | 105 | 2.00 | 5.69 | |
| <0.050 | 0.050 | 03/29/2021 | ND | 2.06 | 103 | 2.00 | 5.67 | |
| <0.050 | 0.050 | 03/29/2021 | ND | 1.99 | 99.6 | 2.00 | 5.31 | |
| <0.150 | 0.150 | 03/29/2021 | ND | 5.88 | 98.0 | 6.00 | 4.87 | |
| <0.300 | 0.300 | 03/29/2021 | ND | | | | | |
| 98.7 | % 73.3-12 | 9 | | | | | | |
| mg/ | mg/kg | | Analyzed By: GM | | | | | |
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 560 | 16.0 | 03/30/2021 | ND | 432 | 108 | 400 | 3.77 | |
| mg/ | /kg | Analyze | d By: MS | | | | | |
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| <10.0 | 10.0 | 03/29/2021 | ND | 217 | 108 | 200 | 2.61 | |
| <10.0 | 10.0 | 03/29/2021 | ND | 223 | 111 | 200 | 3.27 | |
| <10.0 | 10.0 | 03/29/2021 | ND | | | | | |
| 74.8 | % 44.3-14 | 4 | | | | | | |
| 71.3 | % 42.2-15 | 6 | | | | | | |
| | <0.050 <0.050 <0.050 <0.150 <0.300 98.7 mg/ Result 560 mg/ Result <10.0 <10.0 74.8 | <0.050 0.050 <0.050 0.050 <0.050 0.050 <0.050 0.150 <0.300 0.300 98.7 % 73.3-12 mg/ky Result Reporting Limit 560 16.0 mg/ky Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 74.8 % 44.3-14 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |

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03/26/2021

Analytical Results For:

BTA Oil Producers MICHAEL ALVES 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 03/29/2021

Reported: 03/30/2021 Sampling Type: Soil Project Name: RGA #3 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Analyzed By: MC

Sampling Date:

Project Location: LEA CO NM

Sample ID: SP 6 @ SURFACE (H210769-06)

RTFY 8021R

| BIEX 8021B | mg/kg | | Analyzed By: MS | | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.11 | 105 | 2.00 | 5.69 | |
| Toluene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.06 | 103 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/29/2021 | ND | 1.99 | 99.6 | 2.00 | 5.31 | |
| Total Xylenes* | <0.150 | 0.150 | 03/29/2021 | ND | 5.88 | 98.0 | 6.00 | 4.87 | |
| Total BTEX | <0.300 | 0.300 | 03/29/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1840 | 16.0 | 03/30/2021 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | S-06 |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <50.0 | 50.0 | 03/29/2021 | ND | 217 | 108 | 200 | 2.61 | |
| DRO >C10-C28* | 10800 | 50.0 | 03/29/2021 | ND | 223 | 111 | 200 | 3.27 | |
| EXT DRO >C28-C36 | 2340 | 50.0 | 03/29/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 91.5 | % 44.3-14 | '4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 366 | % 42.2-15 | 6 | | | | | | |

Surrogate: 1-Chlorooctadecane 366 % 42.2-156

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03/26/2021

Analytical Results For:

BTA Oil Producers MICHAEL ALVES 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Sampling Date:

Received: 03/29/2021

Reported: 03/30/2021 Sampling Type: Soil Project Name: RGA #3 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: LEA CO NM

Sample ID: SP 7 @ SURFACE (H210769-07)

| 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 | 03/29/2021 | ND | 2.11 | 105 | 2.00 | 5.69 | |
| Toluene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.06 | 103 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/29/2021 | ND | 1.99 | 99.6 | 2.00 | 5.31 | |
| Total Xylenes* | <0.150 | 0.150 | 03/29/2021 | ND | 5.88 | 98.0 | 6.00 | 4.87 | |
| Total BTEX | <0.300 | 0.300 | 03/29/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 99.4 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 352 | 16.0 | 03/30/2021 | ND | 432 | 108 | 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 | 03/29/2021 | ND | 217 | 108 | 200 | 2.61 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/29/2021 | ND | 223 | 111 | 200 | 3.27 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/29/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 72.2 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 70.0 | % 42.2-15 | 6 | | | | | | |

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Analytical Results For:

BTA Oil Producers MICHAEL ALVES 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 03/29/2021 Reported: 03/30/2021

Project Name: RGA #3 Project Number: NONE GIVEN Project Location: LEA CO NM

Sampling Date: 03/26/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SP 8 @ SURFACE (H210769-08)

| 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 | 03/29/2021 | ND | 2.11 | 105 | 2.00 | 5.69 | |
| Toluene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.06 | 103 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/29/2021 | ND | 1.99 | 99.6 | 2.00 | 5.31 | |
| Total Xylenes* | <0.150 | 0.150 | 03/29/2021 | ND | 5.88 | 98.0 | 6.00 | 4.87 | |
| Total BTEX | <0.300 | 0.300 | 03/29/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 100 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 368 | 16.0 | 03/30/2021 | ND | 432 | 108 | 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 | 03/29/2021 | ND | 217 | 108 | 200 | 2.61 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/29/2021 | ND | 223 | 111 | 200 | 3.27 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/29/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 75.3 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 72.2 | % 42.2-15 | 6 | | | | | | |

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Analytical Results For:

BTA Oil Producers MICHAEL ALVES 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 03/29/2021 Reported: 03/30/2021

Project Name: RGA #3 NONE GIVEN Project Number: Project Location: LEA CO NM

Sampling Date: 03/26/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SP 9 @ SURFACE (H210769-09)

| 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 | 03/29/2021 | ND | 2.11 | 105 | 2.00 | 5.69 | |
| Toluene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.06 | 103 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/29/2021 | ND | 1.99 | 99.6 | 2.00 | 5.31 | |
| Total Xylenes* | <0.150 | 0.150 | 03/29/2021 | ND | 5.88 | 98.0 | 6.00 | 4.87 | |
| Total BTEX | <0.300 | 0.300 | 03/29/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 99.0 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 336 | 16.0 | 03/30/2021 | ND | 432 | 108 | 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 | 03/29/2021 | ND | 217 | 108 | 200 | 2.61 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/29/2021 | ND | 223 | 111 | 200 | 3.27 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/29/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 73.2 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 70.3 | % 42.2-15 | 6 | | | | | | |

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Celey D. Keene



Analytical Results For:

BTA Oil Producers MICHAEL ALVES 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 03/29/2021 Reported: 03/30/2021

Project Name: RGA #3 NONE GIVEN Project Number: Project Location: LEA CO NM

Sampling Date: 03/26/2021 Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SP 10 @ SURFACE (H210769-10)

| 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 | 03/29/2021 | ND | 2.11 | 105 | 2.00 | 5.69 | |
| Toluene* | < 0.050 | 0.050 | 03/29/2021 | ND | 2.06 | 103 | 2.00 | 5.67 | |
| Ethylbenzene* | < 0.050 | 0.050 | 03/29/2021 | ND | 1.99 | 99.6 | 2.00 | 5.31 | |
| Total Xylenes* | <0.150 | 0.150 | 03/29/2021 | ND | 5.88 | 98.0 | 6.00 | 4.87 | |
| Total BTEX | <0.300 | 0.300 | 03/29/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 99.7 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 512 | 16.0 | 03/30/2021 | ND | 432 | 108 | 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 | 03/29/2021 | ND | 217 | 108 | 200 | 2.61 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/29/2021 | ND | 223 | 111 | 200 | 3.27 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/29/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 79.8 9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 78.6 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



03/26/2021

Soil

Analytical Results For:

BTA Oil Producers MICHAEL ALVES 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 03/29/2021 Sampling Date:

Reported: 03/30/2021 Sampling Type:

Project Name: RGA #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: SP 11 @ SURFACE (H210769-11)

| BTEX 8021B | mg | /kg | Analyze | ed By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.11 | 105 | 2.00 | 5.69 | |
| Toluene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.06 | 103 | 2.00 | 5.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/29/2021 | ND | 1.99 | 99.6 | 2.00 | 5.31 | |
| Total Xylenes* | <0.150 | 0.150 | 03/29/2021 | ND | 5.88 | 98.0 | 6.00 | 4.87 | |
| Total BTEX | <0.300 | 0.300 | 03/29/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 320 | 16.0 | 03/30/2021 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/29/2021 | ND | 217 | 108 | 200 | 2.61 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/29/2021 | ND | 223 | 111 | 200 | 3.27 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/29/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 75.6 | % 44.3-14 | 14 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 73.2 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

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Celey D. Keene



Analytical Results For:

BTA Oil Producers MICHAEL ALVES 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 03/29/2021 Reported: 03/30/2021

Project Name: RGA #3 NONE GIVEN Project Number: Project Location: LEA CO NM

Sampling Date: 03/26/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: SP 12 @ SURFACE (H210769-12)

| 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 | 03/29/2021 | ND | 2.14 | 107 | 2.00 | 4.56 | |
| Toluene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.08 | 104 | 2.00 | 4.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/29/2021 | ND | 1.98 | 98.9 | 2.00 | 4.56 | |
| Total Xylenes* | <0.150 | 0.150 | 03/29/2021 | ND | 5.78 | 96.4 | 6.00 | 4.03 | |
| Total BTEX | <0.300 | 0.300 | 03/29/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 99.5 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | mg/kg | | Analyzed By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 | 16.0 | 03/30/2021 | ND | 432 | 108 | 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 | 03/29/2021 | ND | 217 | 108 | 200 | 2.61 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/29/2021 | ND | 223 | 111 | 200 | 3.27 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/29/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 76.3 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 72.0 | % 42.2-15 | 6 | | | | | | |

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03/26/2021

Analytical Results For:

BTA Oil Producers MICHAEL ALVES 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 03/29/2021

Reported:03/30/2021Sampling Type:SoilProject Name:RGA #3Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Tamara Oldaker

Analyzed By: MC

Sampling Date:

Project Location: LEA CO NM

Sample ID: SP 13 @ SURFACE (H210769-13)

RTFY 8021R

| B1EX 8021B | mg | /кд | Anaiyze | а ву: м5 | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.14 | 107 | 2.00 | 4.56 | |
| Toluene* | <0.050 | 0.050 | 03/29/2021 | ND | 2.08 | 104 | 2.00 | 4.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/29/2021 | ND | 1.98 | 98.9 | 2.00 | 4.56 | |
| Total Xylenes* | <0.150 | 0.150 | 03/29/2021 | ND | 5.78 | 96.4 | 6.00 | 4.03 | |
| Total BTEX | <0.300 | 0.300 | 03/29/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 99.1 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 | 16.0 | 03/30/2021 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/29/2021 | ND | 217 | 108 | 200 | 2.61 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/29/2021 | ND | 223 | 111 | 200 | 3.27 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/29/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 75.3 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 73.4 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

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Celey D. Keine



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

Notes and Definitions

| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. |
|-------|---|
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| QR-03 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| (575) 393-2326 FAX (575) 393-2476 | BILL TO | ANALYSIS REQUEST |
|---|---|---|
| Company Name: BTA OII Produces | | |
| Project Manager: | Company: 87A | |
| Address: | | |
| City: State: Zip: | Aun | |
| Phone #: Fax #: | Address: | |
| Project #: Project Owner: | City: | |
| | State: Zip: | |
| Project Name: | Phone #: | |
| 1 | Fax #: | |
| Sampler Name: (1) GLA (70 MY) | MATRIX PRESERV SAMPLING | |
| C | | |
| Sample I.D. | ORAB OR (C)OME CONTAINERS ROUNDWATER ASTEWATER DIL L LUDGE THER: CID/BASE: EE / COOL THER: | TPH BTEX |
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| (b) \$ \$ 10.05,0 (C | to and client's acclusive remark) for any claim arising whether based in contract or fort, shall be limited to manuarit paid by the client for the land of the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether based in contract or fort, shall be limited to the arising whether the shall be limited to the arising whether the shall be limited to the shall be limited to the arising whether the shall be limited to the shall | The captionable |
| PLEASE NUTE: Library and comments analyses. All claims including those for regiligence and any other cause whatsoever shall be d analyses. All claims including those for regiligence and any other cause whatsoever shall cardinal be liable for incidental or consequental damages, including service. In no event shall Cardinal be liable for incidental or consequental damages. | PLEASE MVIE: Leaves and convergence and any other cause whatsoever shall be deemed winded unless made in writing and incomment, or loss of profits incurred by client, its subsidiaries, analyses, All calms (cutating those for negligence and any other cause whatsoever shall be deemed window unless makes interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service, in no event shall Curdinal be liable for incidental or consequential damages, including window analysis interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service, in one event shall Curdinal be liable for incidental or consequential damages, including what would recommend to the consequential damages. | □ Vos |
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 1/7/2022 10:45:52 AM

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

| Company Name: BTA | 11 groducer | | | | | | | | | BI | LL TO | | | | | AN | ALYS | IS RE | QUE | ST | | |
|--|--|-------|--------------|-------------|---------|----------|--------|---------|-----------|------------|------------------|---------------------|--------|-----|-----|----|------|-------|-----|----|---|---|
| Project Manager: | | | | | | | | P.O | . #: | | | | Т | | | | | | | | | |
| Address: | | | | | | | | Cor | npa | ny: | | | 1 | | | | | | | | | |
| City: | State: Z | ip: | | | | | | Attr | 1: | | | | | | | | | | | | | |
| Phone #: | Fax #: | | | | | | | Add | ires | s: | | | | | | | | | | | | |
| Project #: | Project Owner: | | | | | | | City | /: | | | | 1 | | | | | | | | | |
| Project Name: | | | | | | | | Stat | te: | | Zip: | | | | | | | | | | | |
| Project Location: RGA = | ‡3 | | | | | | | Pho | ne i | # : | | | | | 1 1 | | | | | | | |
| Sampler Name: Mary | Gonz. | | | | | | | Fax | | | | | | | | | | | 1 | | | |
| FOR LAB USE ONLY | | J | П | - | MA | TRI | X | T | PRES | SERV | SAMPL | ING | 1 | | | | | | | 1 | | |
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| PLEASE NOTE: Liability and Damages, Cardinal's liabili | ty and client's exclusive remedy by any of | daire | arinio | a wheth | er bass | ed in co | ntract | or fort | shall b | e limited | to the amount na | id by the client to | or the | | | | | | | | | |

| Relinquished By: | Date: 39-21 Time: 0830 | Received By: | Phone Result: |
|--|---------------------------|---|-------------------------------------|
| Relinquished By: | Date: Time: | Received By: | Michael @ expert enviroservice. com |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | -4.3 + | Sample Condition CHECKED BY: Cool Intact (Initials) Yes Yes No No | Rush! adoled 3/30 €0804 |



April 19, 2021

BOB HALL

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: RGA #3

Enclosed are the results of analyses for samples received by the laboratory on 04/16/21 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

BTA Oil Producers
BOB HALL
103 South Pecos
Midland TX, 79701
Fax To: (432) 683-0312

Received: 04/16/2021 Reported: 04/19/2021

Project Name: RGA #3
Project Number: NONE GIVEN
Project Location: LEA CO NM

Sampling Date: 04/16/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1 (H210986-01)

DTEV 0021D

| 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 | 04/16/2021 | ND | 2.21 | 111 | 2.00 | 5.37 | |
| Toluene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.10 | 105 | 2.00 | 5.83 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.09 | 104 | 2.00 | 5.17 | |
| Total Xylenes* | <0.150 | 0.150 | 04/16/2021 | ND | 6.18 | 103 | 6.00 | 5.30 | |
| Total BTEX | <0.300 | 0.300 | 04/16/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 104 9 | 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 640 | 16.0 | 04/19/2021 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 04/16/2021 | ND | 188 | 94.1 | 200 | 1.02 | |
| DRO >C10-C28* | 66.7 | 10.0 | 04/16/2021 | ND | 192 | 95.9 | 200 | 2.90 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/16/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 106 5 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 117 9 | % 42.2-15 | 6 | | | | | | |

Analyzed By MC

Cardinal Laboratories *=Accredited Analyte

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Celeg & Frence



Analytical Results For:

BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 04/16/2021 Sampling Date: 04/16/2021 Reported: 04/19/2021 Sampling Type: Soil

Project Name: RGA #3 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: LEA CO NM

Sample ID: SP 2 @ 1 (H210986-02)

| 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 | 04/16/2021 | ND | 2.21 | 111 | 2.00 | 5.37 | |
| Toluene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.10 | 105 | 2.00 | 5.83 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.09 | 104 | 2.00 | 5.17 | |
| Total Xylenes* | <0.150 | 0.150 | 04/16/2021 | ND | 6.18 | 103 | 6.00 | 5.30 | |
| Total BTEX | <0.300 | 0.300 | 04/16/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | 'kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 944 | 16.0 | 04/19/2021 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 04/16/2021 | ND | 188 | 94.1 | 200 | 1.02 | |
| DRO >C10-C28* | 70.0 | 10.0 | 04/16/2021 | ND | 192 | 95.9 | 200 | 2.90 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/16/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 107 9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 118 9 | % 42.2-15 | 6 | | | | | | |

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Analytical Results For:

BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 04/16/2021 Sampling Date: 04/16/2021 Reported: 04/19/2021 Sampling Type: Soil

Project Name: RGA #3 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: LEA CO NM

Sample ID: SP 3 @ 1 (H210986-03)

| 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 | 04/16/2021 | ND | 2.21 | 111 | 2.00 | 5.37 | |
| Toluene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.10 | 105 | 2.00 | 5.83 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.09 | 104 | 2.00 | 5.17 | |
| Total Xylenes* | <0.150 | 0.150 | 04/16/2021 | ND | 6.18 | 103 | 6.00 | 5.30 | |
| Total BTEX | <0.300 | 0.300 | 04/16/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1220 | 16.0 | 04/19/2021 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 04/16/2021 | ND | 188 | 94.1 | 200 | 1.02 | |
| DRO >C10-C28* | 46.7 | 10.0 | 04/16/2021 | ND | 192 | 95.9 | 200 | 2.90 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/16/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 104 9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 116 9 | % 42.2-15 | 6 | | | | | | |

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Analytical Results For:

BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received: 04/16/2021 Sampling Date: 04/16/2021 Reported: 04/19/2021 Sampling Type: Soil

Project Name: RGA #3 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: LEA CO NM

Sample ID: SP 4 @ 1 (H210986-04)

| 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 | 04/16/2021 | ND | 2.21 | 111 | 2.00 | 5.37 | |
| Toluene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.10 | 105 | 2.00 | 5.83 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.09 | 104 | 2.00 | 5.17 | |
| Total Xylenes* | <0.150 | 0.150 | 04/16/2021 | ND | 6.18 | 103 | 6.00 | 5.30 | |
| Total BTEX | <0.300 | 0.300 | 04/16/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 960 | 16.0 | 04/19/2021 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 04/16/2021 | ND | 188 | 94.1 | 200 | 1.02 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/16/2021 | ND | 192 | 95.9 | 200 | 2.90 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/16/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 109 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 115 9 | % 42.2-15 | 6 | | | | | | |

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Analytical Results For:

BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

 Received:
 04/16/2021
 Sampling Date:
 04/16/2021

 Reported:
 04/19/2021
 Sampling Type:
 Soil

Project Name: RGA #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: LEA CO NM

mg/kg

Sample ID: SP 6 @ SURFACE (H210986-05)

BTEX 8021B

| | 9/ | 9 | 7111411720 | | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.21 | 111 | 2.00 | 5.37 | |
| Toluene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.10 | 105 | 2.00 | 5.83 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.09 | 104 | 2.00 | 5.17 | |
| Total Xylenes* | <0.150 | 0.150 | 04/16/2021 | ND | 6.18 | 103 | 6.00 | 5.30 | |
| Total BTEX | <0.300 | 0.300 | 04/16/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1880 | 16.0 | 04/19/2021 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/16/2021 | ND | 188 | 94.1 | 200 | 1.02 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/16/2021 | ND | 192 | 95.9 | 200 | 2.90 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/16/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 112 9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 118 9 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

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04/16/2021

Analytical Results For:

BTA Oil Producers
BOB HALL
103 South Pecos
Midland TX, 79701
Fax To: (432) 683-0312

Received: 04/16/2021 Sampling Date:
Reported: 04/19/2021 Sampling Type:

Reported:04/19/2021Sampling Type:SoilProject Name:RGA #3Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Tamara Oldaker

Analyzed By: MS

Project Location: LEA CO NM

mg/kg

Sample ID: SP 8 @ SURFACE (H210986-06)

BTEX 8021B

| | 9, | 9 | 7 | 7: : : : | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.21 | 111 | 2.00 | 5.37 | |
| Toluene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.10 | 105 | 2.00 | 5.83 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.09 | 104 | 2.00 | 5.17 | |
| Total Xylenes* | <0.150 | 0.150 | 04/16/2021 | ND | 6.18 | 103 | 6.00 | 5.30 | |
| Total BTEX | <0.300 | 0.300 | 04/16/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 104 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1550 | 16.0 | 04/19/2021 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/16/2021 | ND | 188 | 94.1 | 200 | 1.02 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/16/2021 | ND | 192 | 95.9 | 200 | 2.90 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/16/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 111 9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 118 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

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Analytical Results For:

BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received: 04/16/2021 Sampling Date: 04/16/2021 Reported: 04/19/2021 Sampling Type: Soil

Project Name: RGA #3 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: LEA CO NM

Sample ID: SP 10 @ SURFACE (H210986-07)

| 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 | 04/16/2021 | ND | 2.21 | 111 | 2.00 | 5.37 | |
| Toluene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.10 | 105 | 2.00 | 5.83 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.09 | 104 | 2.00 | 5.17 | |
| Total Xylenes* | <0.150 | 0.150 | 04/16/2021 | ND | 6.18 | 103 | 6.00 | 5.30 | |
| Total BTEX | <0.300 | 0.300 | 04/16/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 9 | 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1640 | 16.0 | 04/19/2021 | ND | 400 | 100 | 400 | 3.92 | |
| 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 | 04/16/2021 | ND | 188 | 94.1 | 200 | 1.02 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/16/2021 | ND | 192 | 95.9 | 200 | 2.90 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/16/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 112 9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 118 9 | 6 42.2-15 | 6 | | | | | | |

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Analytical Results For:

BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

 Received:
 04/16/2021
 Sampling Date:
 04/16/2021

 Reported:
 04/19/2021
 Sampling Type:
 Soil

Project Name: RGA #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: SP 13 @ SURFACE (H210986-08)

| BTEX 8021B | mg | /kg | Analyze | ed By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.21 | 111 | 2.00 | 5.37 | |
| Toluene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.10 | 105 | 2.00 | 5.83 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/16/2021 | ND | 2.09 | 104 | 2.00 | 5.17 | |
| Total Xylenes* | <0.150 | 0.150 | 04/16/2021 | ND | 6.18 | 103 | 6.00 | 5.30 | |
| Total BTEX | <0.300 | 0.300 | 04/16/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1720 | 16.0 | 04/19/2021 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/16/2021 | ND | 188 | 94.1 | 200 | 1.02 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/16/2021 | ND | 192 | 95.9 | 200 | 2.90 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/16/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 105 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 111 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

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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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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name: 874 0 | Draducar | BILL TO | SISA IVNV | REQUEST |
|--|---|---|---|---------|
| | Lincoln | P.O.#: | | - 1 |
| Address: | | Company: BTH | | |
| City: | State: Zip: | Attn: Bob Hall | | |
| Phone #: | Fax #: | Address: | | |
| Project #: | Project Owner: | City: | | _ |
| Project Name: | | State: Zip: | | |
| Project Location: RGA #3 | | # | 3: | |
| Sampler Name: Mig W | Some | Fax #: | | |
| FOR LAB USE ONLY | MP. | PRESERV. SAMPLING | | |
| Lab I.D. Sample I.D. | B OR (C)OM ITAINERS INDWATER EWATER | R: BASE: | L PH TEX | |
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| PLEASE NOTE: Liability and Damages. Cardinal's liability and cleanalyses. All claims including those for negligence and any other of | PLEASE NOTE: Liability and Damages. Cardinal's liability and ditent's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed viewed unless made in writing and received by Cardinal within 30 days after completion of the applicable | et or tort shall be limited to the amount paid by the client for the or tort shall be limited to the amount paid by the client for the armount paid by Cardinal within 30 days after completion of the ay | e client for the debon of the applicable | |
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| reinquisned by: | Time: Received By: | • | michael@expertenviroservices.com | com |
| Delivered By: (Circle One) | - | CH | mond | |
| Sampler - UPS - Bus - Other: | 26c 4/13 Pres Pres | 4 O. | | |
| | | | | |

Page 11 of 11

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 44666

CONDITIONS

| Operator: | OGRID: |
|------------------------|---|
| BTA OIL PRODUCERS, LLC | 260297 |
| 104 S Pecos | Action Number: |
| Midland, TX 79701 | 44666 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created | | Condition Date |
|---------|---|-------------------|
| rham | We have received your closure report and final C-141 for Incident #NAPP2107450435 RGA 3, thank you. This closure is approved. | 1/7/2022 |