

| | | |
|--|---------------------------|---------|
| Location: | Mis Amigos Battery | |
| Spill Date: | 8/25/2023 | |
| Area 1 | | |
| Approximate Area = | 168.44 | cu.ft. |
| VOLUME OF LEAK | | |
| Total Crude Oil = | 0.00 | bbls |
| Total Produced Water = | 30.00 | bbls |
| Area 2 | | |
| Approximate Area = | 4222.00 | sq. ft. |
| Average Saturation (or depth) of spill = | 0.50 | inches |
| Average Porosity Factor = | 0.03 | |
| VOLUME OF LEAK | | |
| Total Crude Oil = | 0.00 | bbls |
| Total Produced Water = | 0.94 | bbls |
| Area 3 | | |
| Approximate Area = | 349.00 | sq. ft. |
| Average Saturation (or depth) of spill = | 2.00 | inches |
| Average Porosity Factor = | 0.15 | |
| VOLUME OF LEAK | | |
| Total Crude Oil = | 0.00 | bbls |
| Total Produced Water = | 1.94 | bbls |
| Area 4 | | |
| Approximate Area = | 173.00 | sq. ft. |
| Average Saturation (or depth) of spill = | 2.00 | inches |
| Average Porosity Factor = | 0.15 | |
| VOLUME OF LEAK | | |
| Total Crude Oil = | 0.00 | bbls |
| Total Produced Water = | 0.77 | bbls |
| Area 5 | | |
| Approximate Area = | 1667.00 | sq. ft. |
| Average Saturation (or depth) of spill = | 1.00 | inches |
| Average Porosity Factor = | 0.03 | |
| VOLUME OF LEAK | | |
| Total Crude Oil = | 0.00 | bbls |
| Total Produced Water = | 0.74 | bbls |
| TOTAL VOLUME OF LEAK | | |
| Total Crude Oil = | 0.00 | bbls |
| Total Produced Water = | 34.39 | bbls |
| TOTAL VOLUME RECOVERED | | |
| Total Crude Oil = | 0.00 | bbls |
| Total Produced Water = | 30.00 | bbls |

| | | |
|--------------------|-----------------------|--|
| Location: | Mis Amigos CTB | |
| Spill Date: | 10/12/2023 | |

Area 1

| | | |
|------------------------|-------|--------|
| Approximate Area = | 84.21 | cu.ft. |
| VOLUME OF LEAK | | |
| Total Crude Oil = | 0.00 | bbls |
| Total Produced Water = | 15.00 | bbls |

Area 2

| | | |
|--|---------|---------|
| Approximate Area = | 1176.00 | sq. ft. |
| Average Saturation (or depth) of spill = | 1.00 | inches |

| | | |
|---------------------------|------|------|
| Average Porosity Factor = | 0.03 | |
| VOLUME OF LEAK | | |
| Total Crude Oil = | 0.00 | bbls |
| Total Produced Water = | 0.52 | bbls |

TOTAL VOLUME OF LEAK

| | | |
|------------------------|-------|------|
| Total Crude Oil = | 0.00 | bbls |
| Total Produced Water = | 15.52 | bbls |

TOTAL VOLUME RECOVERED

| | | |
|------------------------|-------|------|
| Total Crude Oil = | 0.00 | bbls |
| Total Produced Water = | 15.00 | bbls |



Incident Number: nAPP2324951631,
nAPP2329851014

Release Assessment and Closure

Mis Amigos Tank Battery
Section 31, Township 23 South, Range 33 East
County: Lea
Vertex File Number: 23E-05219

Prepared for:
XTO Energy

Prepared by:
Vertex Resource Services Inc.

Date:
December 2023

XTO Energy
Mis Amigos Tank Battery

Release Assessment and Closure
November 2023

Release Assessment and Closure
Mis Amigos Tank Battery
Section 31, Township 23 South, Range 33 East
County: Lea

Prepared for:

XTO Energy
3104 E. Greene Street
Carlsbad, NM 88220

New Mexico Oil Conservation Division – District II
811 S. 1st Street
Artesia, New Mexico 88210

Prepared by:

Vertex Resource Services Inc.
3101 Boyd Drive
Carlsbad, New Mexico 88220

Hunter Klein

Hunter Klein, B.Sc.
Environmental Technician, REPORTING

12/12/2023

Date

Chance Dixon

Chance Dixon, B.Sc.
Project Manager, REPORT REVIEW

12/12/2023

Date

In-text Tables

- Table 1. Closure Criteria Determination
- Table 2. Closure Criteria for Soils Impacted by a Release

List of Figures

- Figure 1. Characterization Sampling Site Schematic
- Figure 2. Confirmatory Sampling Site Schematic

List of Tables

- Table 3. Initial Characterization Sample Field Screen and Laboratory Results – Depth to Groundwater >100 feet bgs
- Table 4. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater – Depth to Groundwater >100 feet bgs

List of Appendices

- Appendix A. NMOCD C 141 Report(s)
- Appendix B. Closure Criteria Research Documentation
- Appendix C. Daily Field and Sampling Report(s)
- Appendix D. Notification(s)
- Appendix E. Laboratory Data Report(s) and Chain of Custody Form(s)

1.0 Introduction

XTO Energy (XTO) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a produced water release that occurred on August 25, 2023, at Mis Amigos Tank Battery (hereafter referred to as the "site"). XTO submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 on September 06, 2023. Incident ID number nAPP2324951631 was assigned to this incident.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has 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, with the understanding that restoration of the release site will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

2.0 Incident Description

nAPP2324951631

The release occurred on August 25, 2023, due to a threaded reducer break in a pump discharge causing a release of fluids into a liner which overflowed onto the surrounding pad. The incident was reported on September 6, 2023, and involved the release of approximately 34.39 barrels (bbl.) of produced water onto the pad site. Approximately 30 bbl. of free fluid was removed during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

nAPP2329851014

The second release occurred on October 12, 2023, due to a seal on the water transfer pump failing. The release occurred entirely within the first release. The incident was reported on October 25, 2023, and involved the release of approximately 15.52 bbl. of produced water onto the pad site. Approximately 15 bbl. of free fluid was removed during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

3.0 Site Characteristics

The site is located approximately 26.2 miles East of Malaga, New Mexico. The legal location for the site is Section 31, Township 23 South and Range 33 East in Lea County, New Mexico. The release area is located on State property. An aerial photograph and site schematic are presented in Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area Mis Amigos Tank Battery on or in proximity to the constructed pad (Figure 1).

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2023) indicates the site's surface geology primarily comprises Qep – interlayered eolian and piedmont-slope deposits. The predominant soil texture on the site is PU – Pyote and Maljamar fine sands. Additional soil characteristics include a drainage class of Well

XTO Energy
Mis Amigos Tank Battery

Release Assessment and Closure
November 2023

Drained with a runoff class of Negligible. The karst geology potential for the site is Low (Geomatics) (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with Plains with elevations ranging between 3000 and 3900 feet. The climate is semiarid with average annual precipitation ranging between 10 and 12 inches. Grasses with shrubs and half-shrubs dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

4.0 Closure Criteria Determination

The nearest active well to the site is a New Mexico Office of the State Engineer (NMOSE) well located approximately 0.22 miles from the location (United States Geological Survey, 2023). Data from 2021 shows the NMOSE borehole was drilled to 108 feet below ground surface (bgs) and was recorded as a dry hole. Information pertaining to the depth to groundwater determination is included in Appendix B.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is a riverine located approximately 1.72 miles southeast of the site (United States Fish and Wildlife Service, 2023).

At the site, there are no continuously flowing watercourses or significant 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.

XTO Energy
Mis Amigos Tank Battery

Release Assessment and Closure
November 2023

Table 1. Closure Criteria Worksheet**Site Name:** Mis Amigos Tank Battery**Spill Coordinates:** 32.254544, -103.609145

| | | X: | Y: |
|--|---|---------|-----------------------------------|
| | | Value | Unit |
| Site Specific Conditions | | | |
| 1 | Depth to Groundwater | >108 | feet |
| 2 | Within 300 feet of any continuously flowing watercourse or any other significant watercourse | 9,081 | feet |
| 3 | Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark) | 1,425 | feet |
| 4 | Within 300 feet from an occupied residence, school, hospital, institution or church | 130,416 | feet |
| 5 | i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or | 142,732 | feet |
| | ii) Within 1000 feet of any fresh water well or spring | NO | feet |
| 6 | Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves | No | (Y/N) |
| 7 | Within 300 feet of a wetland | 11,985 | feet |
| 8 | Distance from an area overlying a subsurface mine | 91,872 | feet |
| 9 | Within an unstable area (Karst Map) | Low | Critical High Medium Low |
| 10 | Distance from a 100-year Floodplain | 67,164 | feet |
| 11 | Soil Type | PU | |
| 12 | Ecological Classification | PU | |
| 13 | Geology | Qep | |
| NMAC 19.15.29.12 E (Table 1) Closure Criteria | | >100' | <50' 51-100' >100' |

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils Impacted by a Release

| Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS | Constituent | Limit |
|--|-------------------|--------------|
| > 100 feet | Chloride | 20,000 mg/kg |
| | TPH (GRO+DRO+MRO) | 2,500 mg/kg |
| | GRO+DRO | 1,000 mg/kg |
| | BTEX | 50 mg/kg |
| | Benzene | 10 mg/kg |

TDS – total dissolved solids

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics

BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

Characterization efforts began on September 25, 2023, and were finalized on November 16, 2023, which identified the area of the releases specified in the initial C-141 Reports. The impacted area was determined to be approximately 148 feet long and 79 feet wide; the total affected area is 5,831 square feet. The second release was sampled with BH23-10 on November 16, 2023, to ensure that the second release did not exceed NMOCD's greater than 100 feet closure criteria at 4 feet bgs. The DFR associated with the site inspection is included in Appendix C. Samples were collected down to 4 feet bgs for vertical delineation below the >100 feet closure criteria.

Remediation efforts began on October 23, 2023, and were finalized on November 16, 2023. The remedial activities were conducted after both releases occurred as the first release completely encompassed the second release. Vertex personnel supervised the excavation of impacted soils. Field screening was completed on a total of 32 sample points and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and an EC meter (chlorides). Field screening results were used to identify areas requiring further remediation. Soils were removed to a depth of 0.5 to 2.5 feet bgs. The vicinity of BES23-20 was excavated to 2.5 feet bgs with WES23-04 as a composite sample for all four walls surrounding it. Approximately 160 cubic yards of contaminated material were removed and transported by a licensed waste hauler and disposed of at an approved waste management facility. Notification that confirmatory samples were being collected was provided to the NMOCD on October 18 and 25, 2023, and is included in Appendix D. Confirmatory composite samples were collected from the base and walls of the excavation in 200-square-foot increments. A total of 32 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Eurofins Xenco under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 3, and the laboratory data reports are included in Appendix E. All confirmatory samples collected and analyzed were below the closure criteria for the on-pad requirements outlined in 19.15.29.12 NMAC. Approximately 160 yards of clean, uncontaminated material was used to backfill the site.

XTO Energy
Mis Amigos Tank Battery

Release Assessment and Closure
November 2023

6.0 Closure Request

The release area was fully delineated, remediated, and backfilled with local soil by November 16, 2023. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations "over 100 feet to groundwater". Based on these findings, XTO Energy requests that this release be closed.

Should you have any questions or concerns, please do not hesitate to contact Chance Dixon at 575.988.1472 or cdixon@vertex.ca.

7.0 References

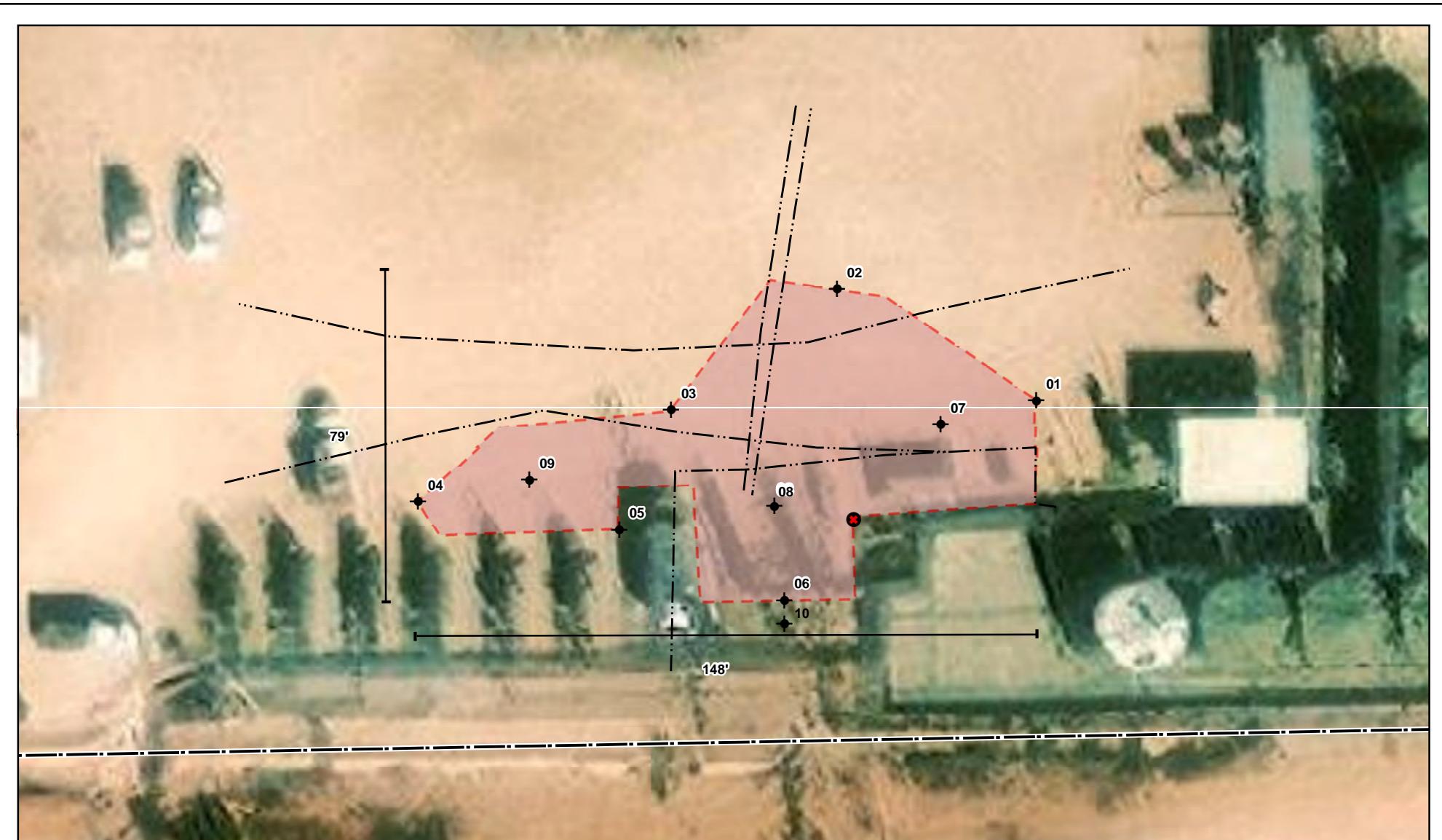
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8.0 Limitations

This report has been prepared for the sole benefit of XTO Energy (XTO). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and XTO. 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.

FIGURES



◆ Borehole (Prefixed by "BH23-")

● Point of Release

— ... Buried Petroleum Pipeline

□ Approximate Lease Boundary

■ Approximate Release Area (~5,831 sq.ft.)



0 20 40 ft

Map Center:
Lat/Long: 32.254599, -103.609255

NAD 1983 UTM Zone 13N

Date: Oct 13/23



Delineation Schematic

Mis Amigos

FIGURE:

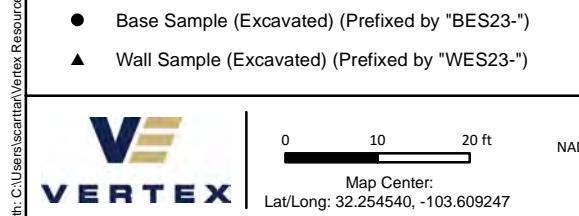
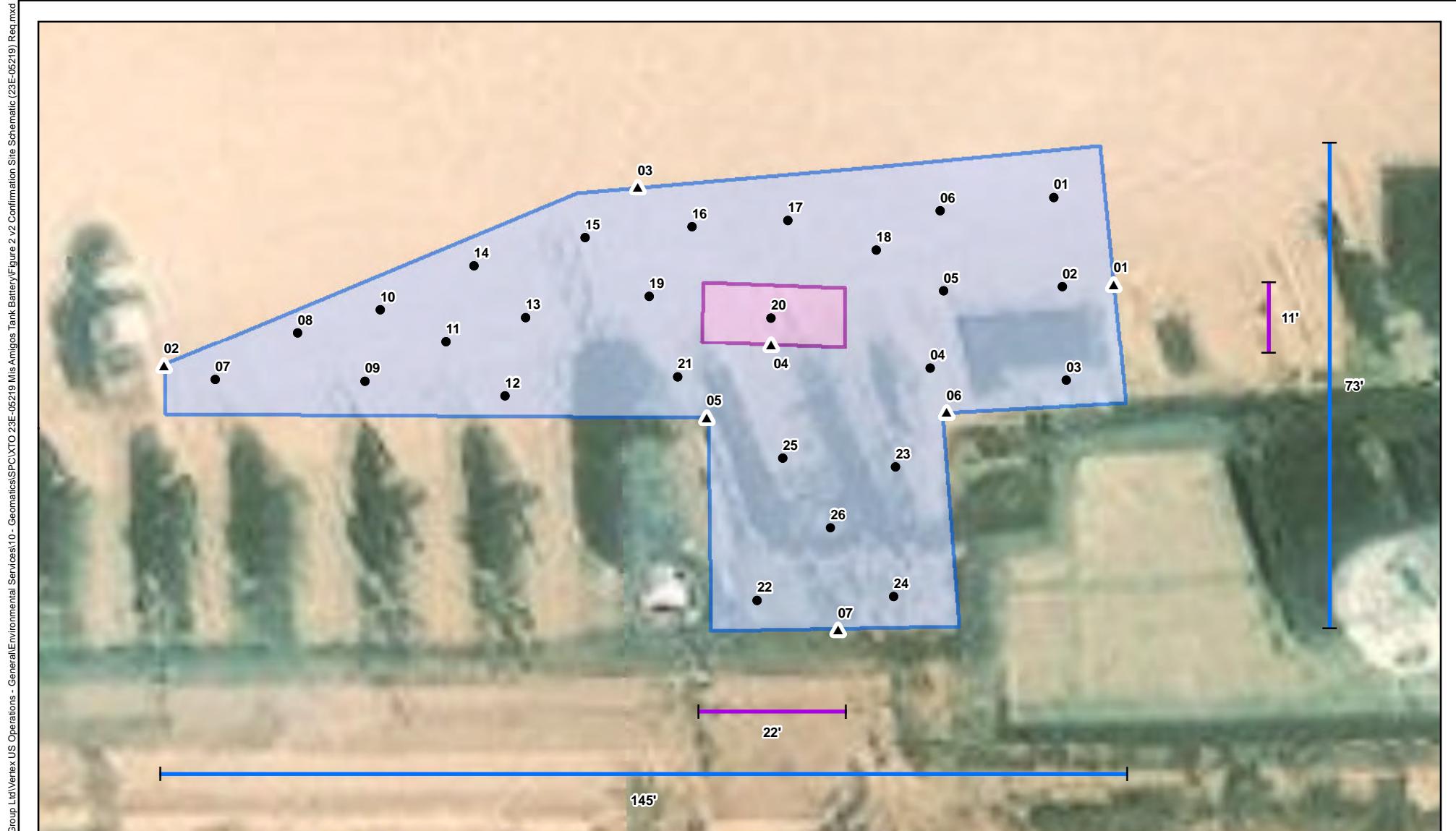
1



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2022. Approximate lease boundary from imagery by Vertex Professional Services Ltd. (Vertex), 2023. Site features from GPS by Vertex, 2023.

VERSATILITY. EXPERTISE.



Confirmation Site Schematic Mis Amigos Tank Battery

FIGURE:
2



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2022. Site features from GPS, Vertex, 2023.

VERSATILITY. EXPERTISE.

TABLES

Client Name: XTO Energy

Site Name: Mis Amigos Tank Battery

NMOCD Tracking #: nAPP2324951631, nAPP2324951631

Project #: 23E-05219

Lab Report(sX): 890-5331-1, 890-5338-1, 890-5357-1, 890-5658-1

Table 3. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater >100 feet bgs

| Sample ID | Depth (ft) | Sample Date | Field Screening | | | Petroleum Hydrocarbons | | | | | | Inorganic | |
|-----------|------------|-------------|---|--|---------------------------------|------------------------|-------------------------|--|--|---|------------------------|---|-----------------------------------|
| | | | Volatile | | | Extractable | | | | | | | |
| | | | Volatile Organic Compounds (PID) (ppm) | Extractable Organic Compounds (PetroFlag) (ppm) | Chloride Concentration (ppm) | Benzene (mg/kg) | BTEx (Total) (mg/kg) | Gasoline Range Organics (GRO) (mg/kg) | Diesel Range Organics (DRO) (mg/kg) | Motor Oil Range Organics (MRO) (mg/kg) | (GRO + DRO) (mg/kg) | Total Petroleum Hydrocarbons (TPH) (mg/kg) | Chloride Concentration (mg/kg) |
| BH23-01 | 0 | 9/22/2023 | - | 98 | 40 | ND | ND | ND | ND | ND | ND | ND | 362 |
| BH23-01 | 2 | 9/22/2023 | - | 94 | 47 | ND | ND | ND | 65.7 | ND | 65.7 | 65.7 | 182 |
| BH23-02 | 0 | 9/22/2023 | - | 35 | ND | ND | ND | ND | ND | ND | ND | ND | 180 |
| BH23-02 | 2 | 9/22/2023 | - | 17 | ND | ND | ND | ND | ND | ND | ND | ND | 124 |
| BH23-03 | 0 | 9/25/2023 | - | 51 | ND | ND | ND | ND | ND | ND | ND | ND | 136 |
| BH23-03 | 2 | 9/25/2023 | - | 43 | ND | ND | ND | ND | ND | ND | ND | ND | 112 |
| BH23-04 | 0 | 9/25/2023 | - | 31 | ND | ND | ND | ND | ND | ND | ND | ND | 32.5 |
| BH23-04 | 2 | 9/25/2023 | - | 36 | ND | ND | ND | ND | ND | ND | ND | ND | 37 |
| BH23-05 | 0 | 9/25/2023 | - | 52 | ND | ND | ND | ND | ND | ND | ND | ND | 55 |
| BH23-05 | 2 | 9/25/2023 | - | 44 | ND | ND | ND | ND | ND | ND | ND | ND | 108 |
| BH23-06 | 0 | 9/26/2023 | - | - | - | ND | ND | ND | 94.7 | ND | 94.7 | 94.7 | 11600 |
| BH23-06 | 2 | 9/26/2023 | - | 51 | ND | ND | ND | ND | ND | ND | ND | ND | 1110 |
| BH23-06 | 4 | 9/26/2023 | - | 91 | 215 | ND | ND | ND | ND | ND | ND | ND | 105 |
| BH23-07 | 0 | 9/26/2023 | - | 231 | 8,744 | ND | ND | ND | ND | ND | ND | ND | 6280 |
| BH23-07 | 2 | 9/26/2023 | - | 57 | ND | ND | ND | ND | ND | ND | ND | ND | 211 |
| BH23-08 | 0 | 9/26/2023 | - | 111 | 8,301 | - | - | - | - | - | - | - | - |
| BH23-08 | 2 | 9/26/2023 | - | 106 | 1,537 | ND | ND | ND | ND | ND | ND | ND | 1830 |
| BH23-08 | 4 | 9/26/2023 | - | 50 | 17 | ND | ND | ND | ND | ND | ND | ND | 233 |
| BH23-09 | 0 | 9/26/2023 | - | 352 | 718 | ND | ND | ND | 297 | ND | 297 | 297 | 821 |
| BH23-09 | 2 | 9/26/2023 | - | 108 | 1,011 | ND | ND | ND | ND | ND | ND | ND | 632 |
| BH23-09 | 4 | 9/26/2023 | - | 69 | 98 | ND | ND | ND | ND | ND | ND | ND | 200 |
| BH23-10 | 0 | 11/16/2023 | - | 217 | 389 | ND | ND | ND | 63.5 | ND | 63.5 | 63.5 | 71 |
| BH23-10 | 2 | 11/16/2023 | - | 39 | 991 | ND | ND | ND | ND | ND | ND | ND | 521 |
| BH23-10 | 4 | 11/16/2023 | - | 46 | 434 | ND | ND | ND | ND | ND | ND | ND | 281 |

"ND" Not Detected at the Reporting Limit

"- indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)

Client Name: XTO Energy
 Site Name: Mis Amigos Tank Battery
 NMOCD Tracking #: nAPP234951631
 Project #: 23E-05219
 Lab Report(sX): 880-35072-1, 880-35156-1

Table 4. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater >100 feet bgs

| Sample ID | Depth (ft) | Sample Date | Field Screening | | | Petroleum Hydrocarbons | | | | | | Inorganic |
|-----------|------------|-------------|-----------------|-------|-------|------------------------|---------|--------------|---------|---------|---------|------------------------------------|
| | | | | | | Volatile | | Extractable | | | | |
| | | | (ppm) | (ppm) | (ppm) | Benzene | (mg/kg) | BTEX (Total) | (mg/kg) | (mg/kg) | (mg/kg) | Total Petroleum Hydrocarbons (TPH) |
| BES23-01 | 0.5 | 10.27.2023 | - | 22 | 194 | ND | ND | ND | ND | ND | ND | 66.3 |
| BES23-02 | 0.5 | 10.27.2023 | - | 28 | 301 | ND | ND | ND | ND | ND | ND | 116 |
| BES23-03 | 0.5 | 10.27.2023 | - | 31 | 27 | ND | ND | ND | ND | ND | ND | 52.8 |
| BES23-04 | 0.5 | 10.27.2023 | - | 45 | 27 | ND | ND | ND | ND | ND | ND | 75.5 |
| BES23-05 | 0.5 | 10.27.2023 | - | 41 | 178 | ND | ND | ND | ND | ND | ND | 148 |
| BES23-06 | 0.5 | 10.27.2023 | - | 36 | 51 | ND | ND | ND | ND | ND | ND | 56.9 |
| BES23-07 | 0.5 | 10.27.2023 | - | 47 | 145 | ND | ND | ND | ND | ND | ND | 51 |
| BES23-08 | 0.5 | 10.27.2023 | - | 46 | 158 | ND | ND | ND | ND | ND | ND | 83 |
| BES23-09 | 0.5 | 10.27.2023 | - | 31 | 95 | ND | ND | ND | ND | ND | ND | 67.5 |
| BES23-10 | 0.5 | 10.27.2023 | - | 28 | 112 | ND | ND | ND | ND | ND | ND | 43.5 |
| BES23-11 | 0.5 | 10.27.2023 | - | 30 | 298 | ND | ND | ND | ND | ND | ND | 227 |
| BES23-12 | 0.5 | 10.27.2023 | - | 21 | 158 | ND | ND | ND | ND | ND | ND | 94.4 |
| BES23-13 | 0.5 | 10.27.2023 | - | 23 | 212 | ND | ND | ND | ND | ND | ND | 102 |
| BES23-14 | 0.5 | 10.27.2023 | - | 25 | 298 | ND | ND | ND | ND | ND | ND | 77.7 |
| BES23-15 | 0.5 | 10.27.2023 | - | 29 | 170 | ND | ND | ND | ND | ND | ND | 78.2 |
| BES23-16 | 0.5 | 10.27.2023 | - | 43 | 79 | ND | ND | ND | ND | ND | ND | 86.4 |
| BES23-17 | 0.5 | 10.27.2023 | - | 42 | 124 | ND | ND | ND | ND | ND | ND | 115 |
| BES23-18 | 0.5 | 10.27.2023 | - | 39 | 129 | ND | ND | ND | ND | ND | ND | 77.7 |
| BES23-19 | 0.5 | 10.27.2023 | - | 35 | 86 | ND | ND | ND | ND | ND | ND | 117 |
| BES23-20 | 2.5 | 10.27.2023 | - | 29 | 167 | ND | ND | ND | ND | ND | ND | 66.5 |
| BES23-21 | 0 | 10.30.2023 | - | - | - | ND | ND | ND | 97.7 | ND | 97.7 | 222 |
| BES23-22 | 0 | 10.30.2023 | - | - | - | ND | ND | ND | ND | ND | ND | 160 |
| BES23-23 | 0 | 10.30.2023 | - | - | - | ND | ND | ND | 907 | 80.4 | 907 | 535 |
| BES23-24 | 0 | 10.30.2023 | - | - | - | ND | ND | ND | 149 | ND | 149 | 76 |
| BES23-25 | 0 | 10.30.2023 | - | - | - | ND | ND | ND | 116 | ND | 116 | 750 |
| WES23-01 | 0-0.5 | 10.27.2023 | - | 29 | 102 | ND | ND | ND | ND | ND | ND | 86 |
| WES23-02 | 0-0.5 | 10.27.2023 | - | 25 | 69 | ND | ND | ND | ND | ND | ND | 68.6 |
| WES23-03 | 0-0.5 | 10.27.2023 | - | 32 | 259 | ND | ND | ND | ND | ND | ND | 169 |
| WES23-04 | 0-2.5 | 10.27.2023 | - | 32 | 189 | ND | ND | ND | ND | ND | ND | 167 |
| WES23-05 | 0-0.5 | 10.30.2023 | - | - | - | ND | ND | ND | ND | ND | ND | 57.8 |
| WES23-06 | 0-0.5 | 10.30.2023 | - | - | - | ND | ND | ND | ND | ND | ND | 80.9 |
| WES23-07 | 0-0.5 | 10.30.2023 | - | - | - | ND | ND | ND | ND | ND | ND | 72 |

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

APPENDIX A - NMOCD C-141 Reports

APPENDIX B – Closure Criteria Research Documentation

Mis Amigos POD Location



11/7/2023, 11:42:06 AM

Override 1
GIS WATERS PODs

Water Right Regulations

Closure Area

Pending

New Mexico State Trust Lands

Plugged

Both Estates

OSE District Boundary

1:4,514

0 0.04 0.09
0 0.05 0.1 0.2 km

Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



WELL RECORD & LOG
OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

DSE DIT AUG 17 2021 PM3:09

| | | | | | | | | |
|---|---------------------|---|---|-----------------------------|---|--|--------------------------------------|--------------------------|
| 1. GENERAL AND WELL LOCATION | | OSE POD NO. (WELL NO.) POD1 (BH-01) | | WELL TAG ID NO. n/a | | OSE FILE NO(S). C-4551 | | |
| WELL OWNER NAME(S) XTO Energy (Kyle Littrell) | | PHONE (OPTIONAL) | | | | | | |
| WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr. | | | | CITY Midland | STATE TX | ZIP 79707 | | |
| WELL LOCATION (FROM GPS) | DEGREES LATITUDE | 32 | MINUTES 15 | SECONDS 18.36 | N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | |
| | LONGITUDE | 103 | 36 | 46.04 | W | * DATUM REQUIRED: WGS 84 | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SW Sec. 31T23S R33E | | | | | | | | |
| LICENSE NO. 1249 | | NAME OF LICENSED DRILLER Jackie D. Atkins | | | | NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc. | | |
| DRILLING STARTED 07/20/2021 | | DRILLING ENDED 07/20/2021 | DEPTH OF COMPLETED WELL (FT) temporary well material | BORE HOLE DEPTH (FT) 108 | | DEPTH WATER FIRST ENCOUNTERED (FT) n/a | | |
| COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a | | |
| DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD | | ADDITIVES – SPECIFY: | | | | | | |
| DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL | | <input checked="" type="checkbox"/> OTHER – SPECIFY: Hollow Stem Auger | | | | | | |
| DEPTH (feet bgl) | | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| FROM | TO | | Boring- HSA | | | | | |
| 0 | 108 | ±6.5 | | | -- | -- | -- | -- |
| 2. DRILLING & CASING INFORMATION | | | | | | | | |
| DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | | | AMOUNT (cubic feet) | METHOD OF PLACEMENT | |
| FROM | TO | | | | | | | |
| 3. ANNULAR MATERIAL | | | | | | | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

| | | |
|-------------------------|-----------------|----------------|
| FILE NO. C-4551 | POD NO. 1 | TRN NO. 699428 |
| LOCATION 23S-33E-31 443 | WELL TAG ID NO. | PAGE 1 OF 2 |

OSE DIT AUG 17 2021 PM3:08

| DEPTH (feet bg) | | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm) |
|---|---|---|--|---------------------------------|--|
| FROM | TO | | | | |
| 0 | 15 | 15 | Sand,fine grain, poorly graded, moist, Reddish Brown | Y ✓ N | |
| 15 | 40 | 25 | Caliche, poorly consolidated, Tan-Off White | Y ✓ N | |
| 40 | 45 | 5 | Sand,medium-fine grain, poorly graded, trace caliche, Light Brown | Y ✓ N | |
| 45 | 50 | 5 | Clayey Sand, fine- medium grain , poorly graded, cohesive, Reddish Brown | Y ✓ N | |
| 50 | 55 | 5 | Sandy Clay, fine- medium grain , poorly graded, cohesive, Reddish Brown | Y ✓ N | |
| 55 | 70 | 15 | Claystone, poorly cemented, cohesive,Reddish brown, | Y ✓ N | |
| 70 | 75 | 5 | Clayey Sand, medium grain , poorly graded, cohesive, Light Brown | Y ✓ N | |
| 75 | 80 | 5 | Silty Sand, fine- very finegrain , poorly graded, cohesive, Light Brown | Y ✓ N | |
| 80 | 85 | 5 | Clayey Sand, fine- medium grain , poorly graded, cohesive, Light Brown | Y ✓ N | |
| 85 | 100 | 15 | Sandy Clay, poorly graded, cohesive, Reddish Brown | Y ✓ N | |
| 100 | 105 | 5 | Clay, low plasticity, cohesive, Brown-Blueish Gray, Dry | Y ✓ N | |
| 105 | 108 | 3 | Claystone, poorly cemented, cohesive,Reddish brown,dry | Y ✓ N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: | | | | | TOTAL ESTIMATED WELL YIELD (gpm): 0.00 |
| 5. TEST; RIG SUPERVISION | WELL TEST | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. | | | |
| | MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist. | | | | |
| | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt | | | | |
| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: | | | | |
| | Jackie D. Atkins | Jackie D. Atkins | 08/13/2021 | | |
| SIGNATURE OF DRILLER / PRINT SIGHNEE NAME | | | DATE | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

| | | |
|---------------------------|-----------------|----------------|
| FILE NO. C-4551 | POD NO. 1 | TRN NO. 699428 |
| LOCATION 23S-33E - 31 443 | WELL TAG ID NO. | PAGE 2 OF 2 |



National Wetlands Inventory

Mis Amigos CTB Nearest Watercourse 1.72



September 20, 2023

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.



National Wetlands Inventory

Mis Amigos CTB Nearest Water Body 0.27



September 20, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

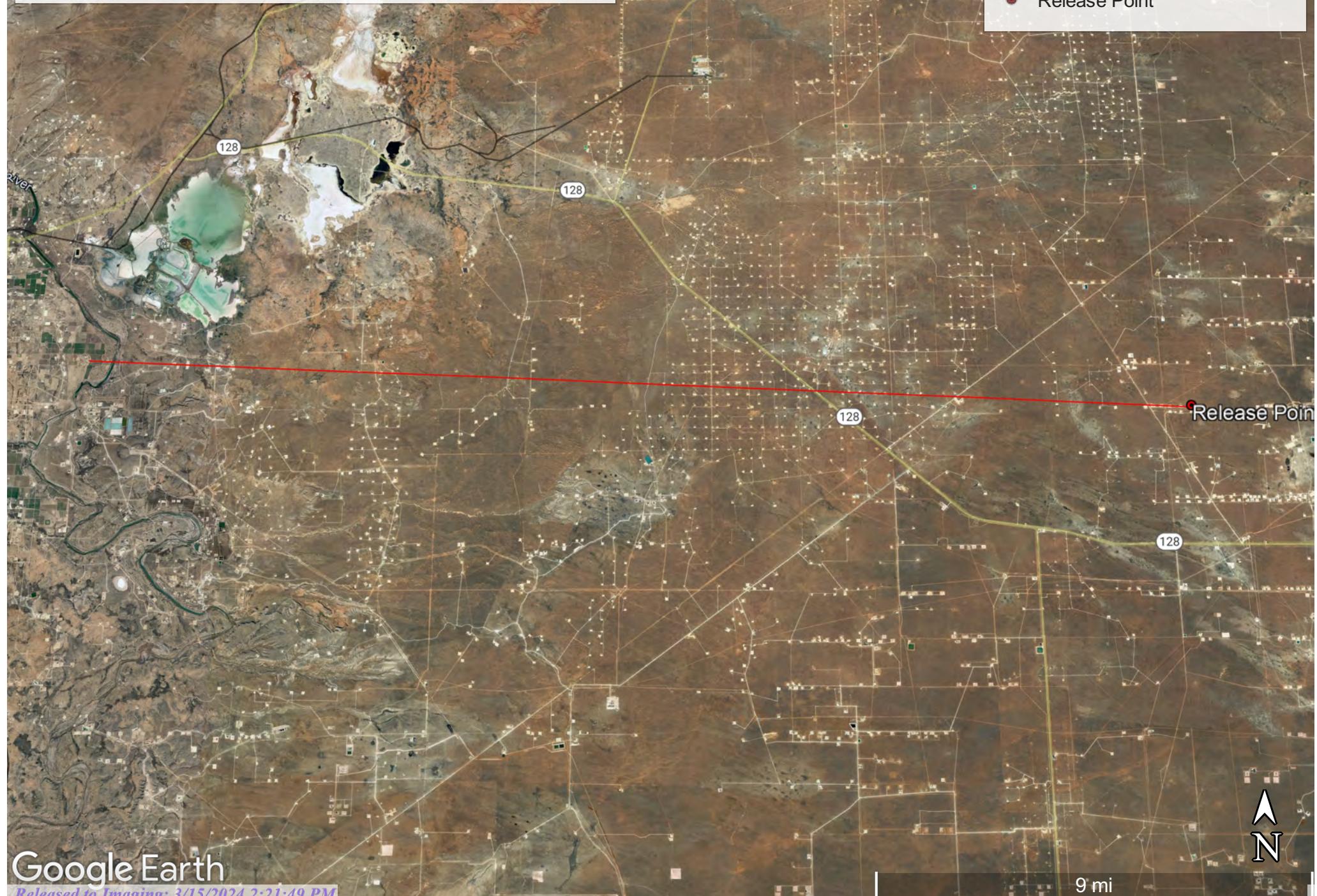
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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.

Mis Amigos Nearest Residence 24.7 Mi

Legend

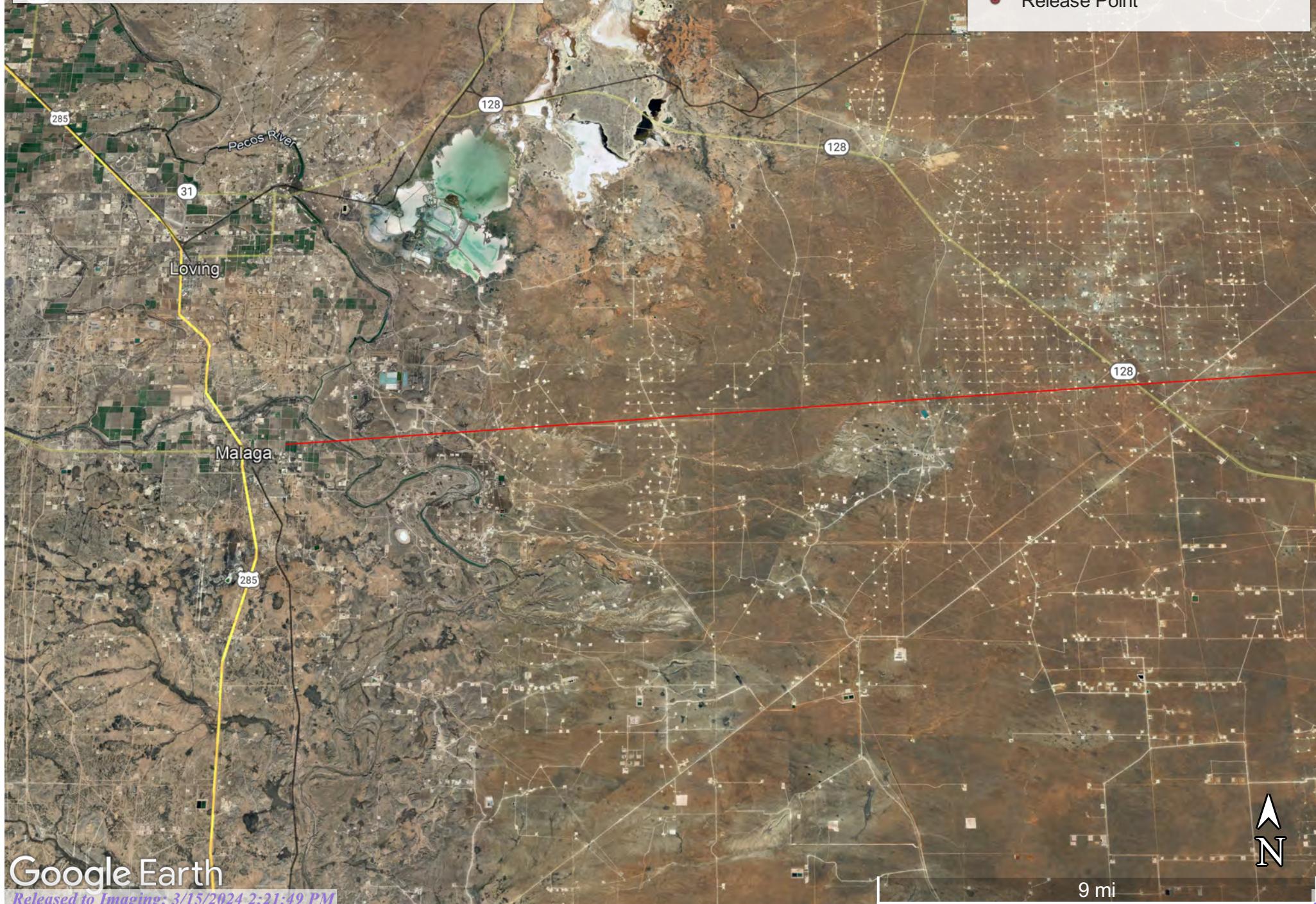
- Nearest Household 24.7 Miles
- Release Point



Mis Amigos Nearest Town 26.2 Mi

Legend

- Nearest Town Malaga 26.2 Miles
- Release Point





National Wetlands Inventory

Mis Amigos CTB Wetland 2.27 Mi



September 20, 2023

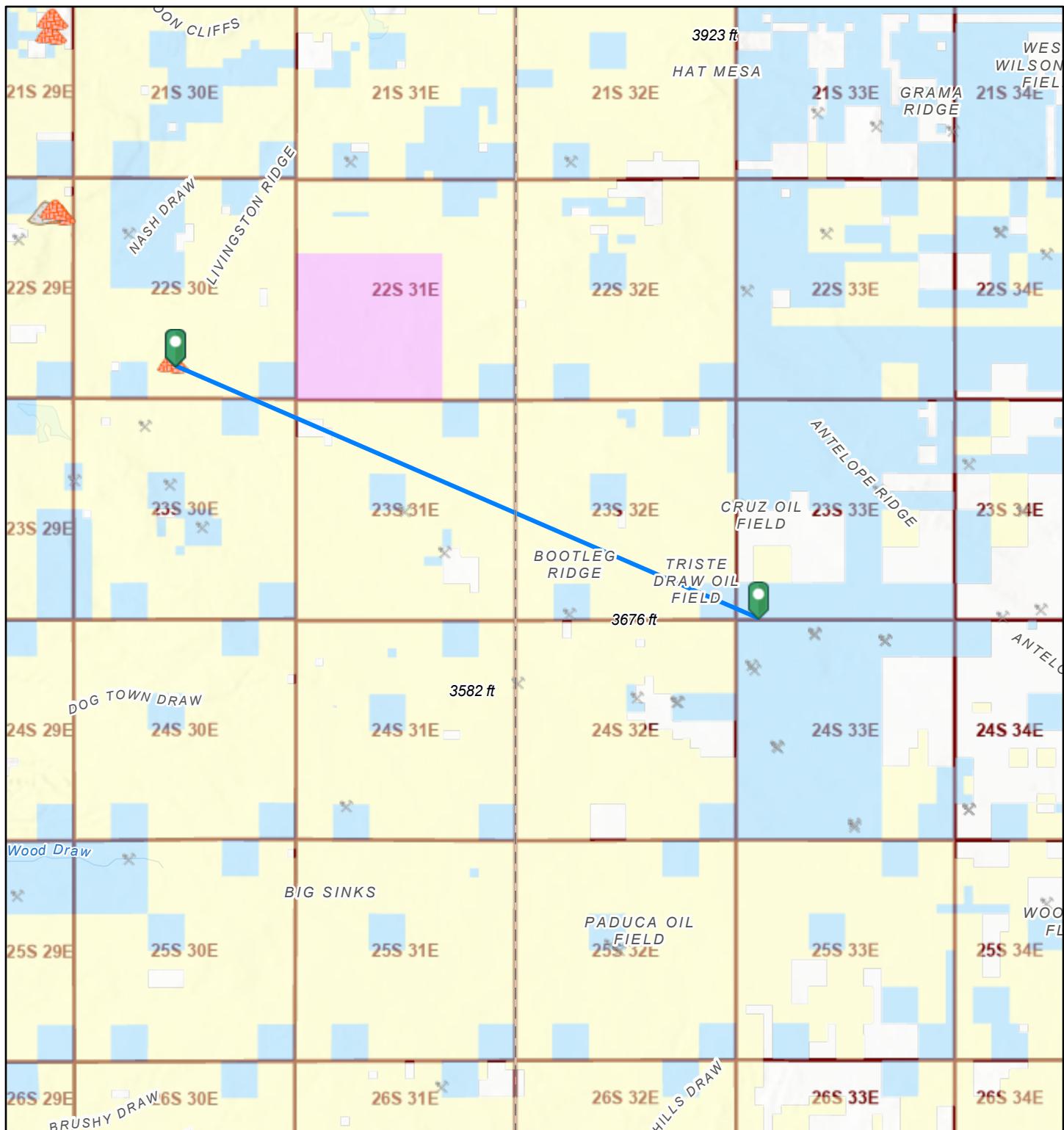
Wetlands

- █ 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.

Mis Amigos/Subsurface Mine 17.4 Miles



12/12/2023, 7:56:54 AM

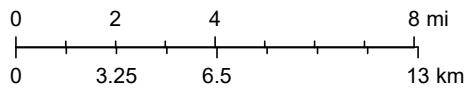
1:288,895

Registered Mines

- ✖ Aggregate, Stone etc.
- ✖ Aggregate, Stone etc.
- ✖ Aggregate, Stone etc.
- ✖ Potash
- ✖ Salt

Land Ownership

- BLM
- DOE
- P
- S
- PLSS Townships



U.S. BLM, Esri, NASA, NGA, USGS, New Mexico State University, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, BLM

National Flood Hazard Layer FIRMette



103°36'52"W 32°15'32"N



Legend

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

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average 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
- Area with Flood Risk due to Levee Zone D

OTHER AREAS OF FLOOD HAZARD

- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs

OTHER AREAS

- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

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

- 8 Coastal Transect

- www Base Flood Elevation Line (BFE)

- Limit of Study

- Jurisdiction Boundary

- Coastal Transect Baseline

- Profile Baseline

- 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 9/20/2023 at 12:49 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.

APPENDIX C – Daily Field Reports



Daily Site Visit Report

Client: XTO Energy Inc. (US)

Inspection Date: 9/22/2023

Site Location Name: Mis Amigos

Report Run Date: 9/22/2023 9:43 PM

Client Contact Name: Garrett Green

API #: _____

Client Contact Phone #: 575-200-0729

Project Owner: _____

Unique Project ID: _____

Project Manager: _____

Project Reference #: _____

Summary of Times

Arrived at Site: 9/22/2023 9:30 AM

Departed Site: _____

Field Notes

12:53 Arrived on site and filled out safety paperwork.

12:53 Mapped spill area and buried infrastructure.

Next Steps & Recommendations

1



Daily Site Visit Report

Site Photos



Spill area.



Point of release.



Spill area.



Release area.



Daily Site Visit Report





Daily Site Visit Report

Client: XTO Energy Inc. (US)
Site Location Name: Mis Amigos
Client Contact Name: Garrett Green
Client Contact Phone #: 575-200-0729
Unique Project ID _____
Project Reference # _____

Inspection Date: 10/27/2023
Report Run Date: 10/27/2023 10:44 PM
API #: _____
Project Owner: _____
Project Manager: _____

Summary of Times

Arrived at Site 10/27/2023 8:45 AM

Departed Site 10/27/2023 1:30 PM

Field Notes

9:43 Arrived on site and filled out safety paperwork.

9:44 Conducted site walkthrough and tailgate safety discussion with Tex Mex crew.

9:44 Loaded 3 belly dumps of materials to take to haul site.

9:44 Continued surface scrape of the excavation area.

13:13 Finished surface scrape and excavation pending confirmation sampling.

13:14 Collected, field screened, and jarred samples BES23-01 through 20 and WES23-01 through 04.

13:14 Hauled off another 3 belly dump trucks of dirty materials.

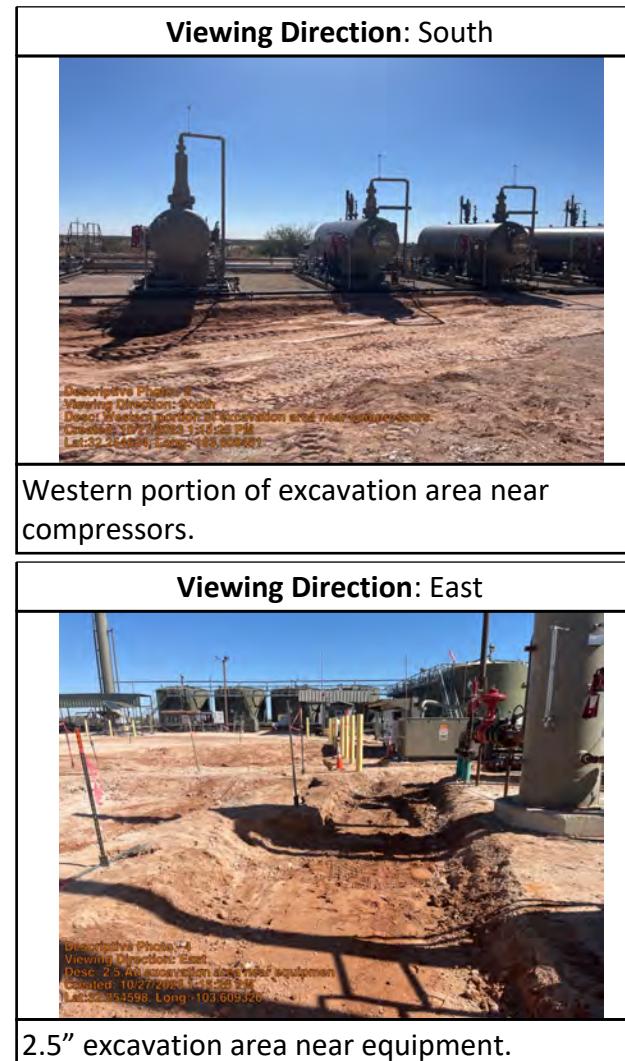
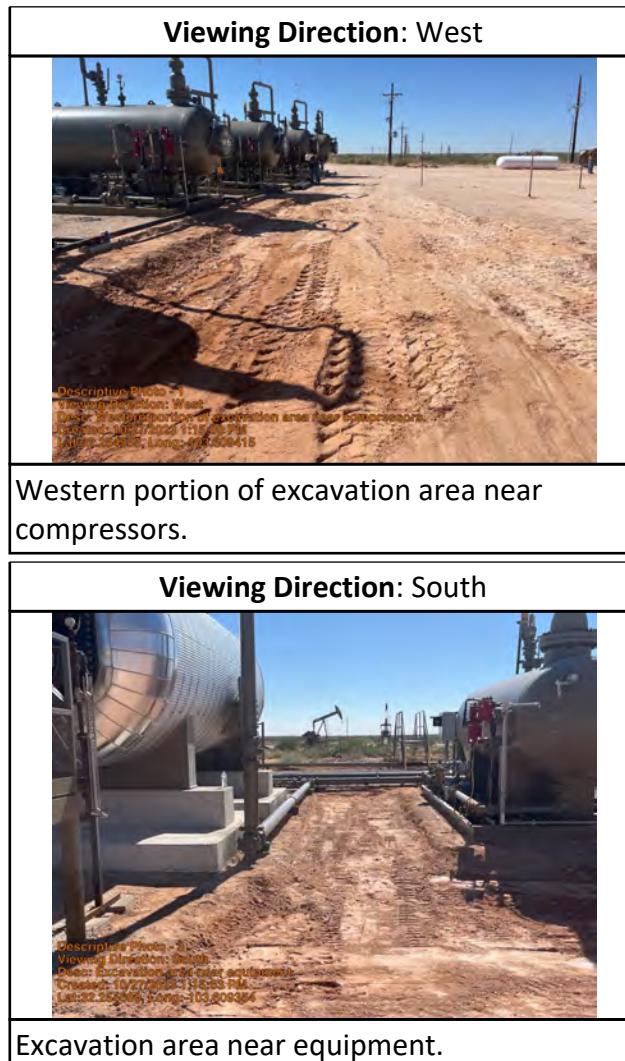
Next Steps & Recommendations

1



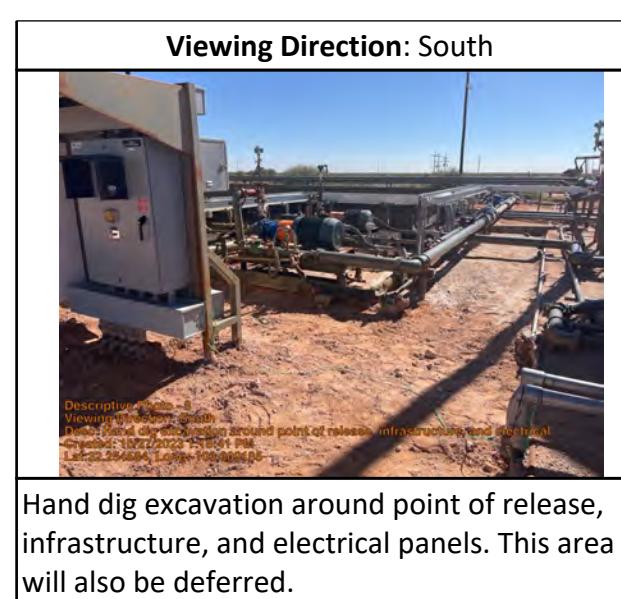
Daily Site Visit Report

Site Photos



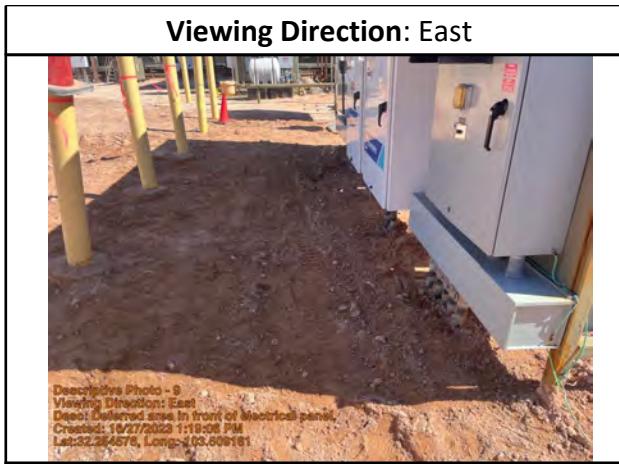


Daily Site Visit Report





Daily Site Visit Report



Deferred area in front of electrical panel.



Surface scraped area in north eastern portion of release area.



Excavation looking from the east side.



Excavation looking from north side.

APPENDIX D – Notifications

From: [Collins, Melanie](#)
To: [ocd.enviro \(ocd.enviro@emnrd.nm.gov\)](#); [spills@slo.state.nm.us](#)
Cc: [Chance Dixon](#); [Green, Garrett J](#); [Lambert, Tommee L](#); [DelawareSpills /SM](#)
Subject: XTO Sampling Notification nAPP2324951631 Mis Amigos Tank Battery
Date: October 18, 2023 1:10:32 PM
Attachments: [image001.png](#)

All,

Please see the sampling schedule below for the Mis Amigos Tank Battery. Sampling will take place from 8 a.m. to 5 p.m. Please do not hesitate to reach out with questions or concerns.

| | |
|------------------------------------|---|
| Site Name | Mis Amigos Tank Battery |
| Location | O-31-23S-33E; Eddy County, NM |
| Incident ID | nAPP2324951631 |
| Source & Description of Activities | Excavation and Sampling |
| Expected Duration for Activities | 4 Days 10.23.2023 – 10.26.2023 |
| Env Consultant | Vertex |
| Contractor | TexMex |
| Sampling Notification Required | Yes, 10.23.2023 – 10.27.2023 (NMOCD District 1) |
| Surface Owner | SLO |

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

From: [Collins, Melanie](#)
To: [ocd.enviro \(ocd.enviro@emnrd.nm.gov\)](#); [spills@slo.state.nm.us](#)
Cc: [Green, Garrett J](#); [Chance Dixon](#); [DelawareSpills /SM](#); [Lambert, Tommee L](#)
Subject: XTO Sampling Notifications 10/27/23-11/3/23
Date: October 25, 2023 1:11:39 PM
Attachments: [image001.png](#)

Please see the notifications below. Sites will be sampled beginning at 130 MT.

| | |
|------------------------------------|---|
| Site Name | Mis Amigos Tank Battery |
| Location | O-31-23S-33E; Eddy County, NM |
| Incident ID | nAPP2324951631 |
| Source & Description of Activities | Excavation and Sampling |
| Expected Duration for Activities | 4 Days 10.30.2023 – 11.03.2023 |
| Env Consultant | Vertex |
| Contractor | TexMex |
| Sampling Notification Required | Yes, 10.27.2023 – 11.03.2023 at 12:00 p.m. (NMOCD District 1) |
| Surface Owner | SLO |

| | |
|------------------------------------|--|
| Site Name | PLU Pierce Canyon 20-24-30 |
| Location | B-20-24S-30E; Eddy County, NM |
| Incident ID | nAPP2324234725 |
| Source & Description of Activities | Excavation and Sampling |
| Expected Duration for Activities | 1 Day |
| Env Consultant | Vertex |
| Contractor | TexMex |
| Sampling Notification Required | Yes, 10.27.2023 – 11.01.2023 at 8:00 a.m. (NMOCD District 2) |
| Surface Owner | BLM |

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

Collins, Melanie

From: OCDOnline@state.nm.us
Sent: Wednesday, September 6, 2023 3:21 PM
To: Collins, Melanie
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 262763

External Email - Think Before You Click

To whom it may concern (c/o Melanie Collins for XTO ENERGY, INC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2324951631, with the following conditions:

- When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2324951631, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Collins, Melanie

From: Collins, Melanie
Sent: Monday, August 28, 2023 9:20 AM
To: ocd.enviro (ocd.enviro@emnrd.nm.gov)
Cc: Green, Garrett J
Subject: 24-hour notification Mis Amigos Battery

All,

This is notification of a spill greater than 25 barrels that occurred Friday at the Mis Amigos Tank Battery. GPS coordinates are listed below. Details will be provided with a Form C-141. Please reach out if you have questions.

GPS 32.25462, -103.60923

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

APPENDIX E – Laboratory Data Reports and Chain of Custody Forms



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 10/5/2023 12:12:05 PM Revision 1

JOB DESCRIPTION

Mis Amigos CTB
SDG NUMBER 23E-05219

JOB NUMBER

890-5331-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Generated
10/5/2023 12:12:05 PM
Revision 1

Client: Vertex
Project/Site: Mis Amigos CTB

Laboratory Job ID: 890-5331-1
SDG: 23E-05219

Table of Contents

| | | |
|------------------------------|----|----|
| Cover Page | 1 | 3 |
| Table of Contents | 3 | 4 |
| Definitions/Glossary | 4 | 5 |
| Case Narrative | 5 | 6 |
| Client Sample Results | 7 | 6 |
| Surrogate Summary | 11 | 7 |
| QC Sample Results | 12 | 8 |
| QC Association Summary | 16 | 8 |
| Lab Chronicle | 18 | 9 |
| Certification Summary | 20 | 10 |
| Method Summary | 21 | 11 |
| Sample Summary | 22 | 11 |
| Chain of Custody | 23 | 12 |
| Receipt Checklists | 24 | 13 |
| | | 14 |

Definitions/Glossary

Client: Vertex
Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
SDG: 23E-05219

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

Abbreviation **These commonly used abbreviations may or may not be present in this report.**

| | |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: Vertex
Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
SDG: 23E-05219

Job ID: 890-5331-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5331-1

REVISION

The report being provided is a revision of the original report sent on 10/2/2023. The report (revision 1) is being revised due to Chloride E300 and TPH 8015 missing on final report.,

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/22/2023 4:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH23-01 0' (890-5331-1), BH23-01 2' (890-5331-2), BH23-02 0' (890-5331-3) and BH23-02 2' (890-5331-4).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63329 and 880-63562 and analytical batch 880-63583 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-63583 recovered under the lower control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.>(CCV 880-63583/113)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-63901 and analytical batch 880-63913 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH23-01 0' (890-5331-1), BH23-01 2' (890-5331-2), BH23-02 0' (890-5331-3), BH23-02 2' (890-5331-4), (890-5331-A-1-E MS) and (890-5331-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-63901/2-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-63860

Case Narrative

Client: Vertex
Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
SDG: 23E-05219

Job ID: 890-5331-1 (Continued)**Laboratory: Eurofins Carlsbad (Continued)**

and analytical batch 880-63882 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

Client Sample ID: BH23-01 0'
 Date Collected: 09/22/23 09:00
 Date Received: 09/22/23 16:10
 Sample Depth: 0'

Lab Sample ID: 890-5331-1
 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 00:44 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 00:44 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 00:44 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 00:44 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 00:44 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 00:44 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 107 | | 70 - 130 | | | 09/26/23 11:47 | 10/01/23 00:44 | 1 |
| 1,4-Difluorobenzene (Surr) | | 103 | | 70 - 130 | | | 09/26/23 11:47 | 10/01/23 00:44 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 10/01/23 00:44 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.7 | U | 49.7 | | mg/Kg | | | 10/04/23 10:29 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 49.7 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 10:29 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 10:29 | 1 |
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 10:29 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | | | S1+ | 70 - 130 | | | 10/03/23 16:26 | 10/04/23 10:29 | 1 |
| <i>o</i> -Terphenyl | | | 120 | 70 - 130 | | | 10/03/23 16:26 | 10/04/23 10:29 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 362 | | 4.96 | | mg/Kg | | | 10/03/23 16:44 | 1 |

Client Sample ID: BH23-01 2'
 Date Collected: 09/22/23 09:05
 Date Received: 09/22/23 16:10
 Sample Depth: 2'

Lab Sample ID: 890-5331-2
 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:04 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:04 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:04 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:04 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:04 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:04 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 96 | | 70 - 130 | | | 09/26/23 11:47 | 10/01/23 01:04 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

Client Sample ID: BH23-01 2'
 Date Collected: 09/22/23 09:05
 Date Received: 09/22/23 16:10
 Sample Depth: 2'

Lab Sample ID: 890-5331-2
 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 | 09/26/23 11:47 | 10/01/23 01:04 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | | mg/Kg | | | 10/01/23 01:04 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 65.7 | | 50.3 | | mg/Kg | | | 10/04/23 11:36 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.3 | U | 50.3 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 11:36 | 1 |

Diesel Range Organics (Over C10-C28)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <50.3 | U | 50.3 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 11:36 | 1 |

Surrogate

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 161 | S1+ | 70 - 130 | 10/03/23 16:26 | 10/04/23 11:36 | 1 |
| o-Terphenyl | 141 | S1+ | 70 - 130 | 10/03/23 16:26 | 10/04/23 11:36 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 182 | | 4.97 | | mg/Kg | | | 10/03/23 17:04 | 1 |

Client Sample ID: BH23-02 0'**Lab Sample ID: 890-5331-3**

Date Collected: 09/22/23 09:10
 Date Received: 09/22/23 16:10
 Sample Depth: 0'

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:24 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:24 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:24 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:24 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:24 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:24 | 1 |

Surrogate

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 130 | 09/26/23 11:47 | 10/01/23 01:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 | 09/26/23 11:47 | 10/01/23 01:24 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 10/01/23 01:24 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.1 | U | 50.1 | | mg/Kg | | | 10/04/23 11:58 | 1 |

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Client Sample Results

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

Client Sample ID: BH23-02 0'
 Date Collected: 09/22/23 09:10
 Date Received: 09/22/23 16:10
 Sample Depth: 0'

Lab Sample ID: 890-5331-3
 Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1 | U | 50.1 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 11:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.1 | U | 50.1 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 11:58 | 1 |
| Oil Range Organics (Over C28-C36) | <50.1 | U | 50.1 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 11:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 131 | S1+ | 70 - 130 | | | | 10/03/23 16:26 | 10/04/23 11:58 | 1 |
| o-Terphenyl | 115 | | 70 - 130 | | | | 10/03/23 16:26 | 10/04/23 11:58 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 180 | | 4.99 | | mg/Kg | | | 10/03/23 17:11 | 1 |

Client Sample ID: BH23-02 2'
 Date Collected: 09/22/23 09:15
 Date Received: 09/22/23 16:10
 Sample Depth: 2'

Lab Sample ID: 890-5331-4
 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:45 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:45 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:45 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:45 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:45 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 09/26/23 11:47 | 10/01/23 01:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | | | 09/26/23 11:47 | 10/01/23 01:45 | 1 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 | | | | 09/26/23 11:47 | 10/01/23 01:45 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 10/01/23 01:45 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.4 | U | 50.4 | | mg/Kg | | | 10/04/23 12:20 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4 | U | 50.4 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 12:20 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.4 | U | 50.4 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 12:20 | 1 |
| Oil Range Organics (Over C28-C36) | <50.4 | U | 50.4 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 12:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 145 | S1+ | 70 - 130 | | | | 10/03/23 16:26 | 10/04/23 12:20 | 1 |
| o-Terphenyl | 125 | | 70 - 130 | | | | 10/03/23 16:26 | 10/04/23 12:20 | 1 |

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Client Sample Results

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

Client Sample ID: BH23-02 2'
 Date Collected: 09/22/23 09:15
 Date Received: 09/22/23 16:10
 Sample Depth: 2'

Lab Sample ID: 890-5331-4
 Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 124 | | 5.03 | | mg/Kg | | | 10/03/23 17:17 | 1 |

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Surrogate Summary

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|---------------------|------------------------|--|-------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 880-33598-A-1-C MS | Matrix Spike | 107 | 103 |
| 880-33598-A-1-D MSD | Matrix Spike Duplicate | 103 | 106 |
| 890-5331-1 | BH23-01 0' | 107 | 103 |
| 890-5331-2 | BH23-01 2' | 96 | 112 |
| 890-5331-3 | BH23-02 0' | 96 | 109 |
| 890-5331-4 | BH23-02 2' | 98 | 109 |
| LCS 880-63329/1-A | Lab Control Sample | 103 | 103 |
| LCSD 880-63329/2-A | Lab Control Sample Dup | 101 | 102 |
| MB 880-63329/5-A | Method Blank | 123 | 144 S1+ |
| MB 880-63562/5-A | Method Blank | 117 | 142 S1+ |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-5331-1 | BH23-01 0' | 134 S1+ | 120 |
| 890-5331-1 MS | BH23-01 0' | 137 S1+ | 110 |
| 890-5331-1 MSD | BH23-01 0' | 144 S1+ | 115 |
| 890-5331-2 | BH23-01 2' | 161 S1+ | 141 S1+ |
| 890-5331-3 | BH23-02 0' | 131 S1+ | 115 |
| 890-5331-4 | BH23-02 2' | 145 S1+ | 125 |
| LCS 880-63901/2-A | Lab Control Sample | 131 S1+ | 138 S1+ |
| LCSD 880-63901/3-A | Lab Control Sample Dup | 102 | 107 |
| MB 880-63901/1-A | Method Blank | 137 S1+ | 129 |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

QC Sample Results

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-63329/5-A****Matrix: Solid****Analysis Batch: 63583**

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/26/23 11:47 | 09/30/23 22:53 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/26/23 11:47 | 09/30/23 22:53 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/26/23 11:47 | 09/30/23 22:53 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 09/26/23 11:47 | 09/30/23 22:53 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/26/23 11:47 | 09/30/23 22:53 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 09/26/23 11:47 | 09/30/23 22:53 | 1 |

Client Sample ID: Method Blank**Prep Type: Total/NA****Prep Batch: 63329**

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 123 | | 70 - 130 | 09/26/23 11:47 | 09/30/23 22:53 | 1 |
| 1,4-Difluorobenzene (Surr) | 144 | S1+ | 70 - 130 | 09/26/23 11:47 | 09/30/23 22:53 | 1 |

Lab Sample ID: LCS 880-63329/1-A**Matrix: Solid****Analysis Batch: 63583**

| Analyte | Spikes | LCS | LCS | Unit | D | %Rec | Limits | %Rec |
|---------------------|--------|---------|-----------|-------|---|------|----------|------|
| | Added | Result | Qualifier | | | | | |
| Benzene | 0.100 | 0.09496 | | mg/Kg | | 95 | 70 - 130 | |
| Toluene | 0.100 | 0.08562 | | mg/Kg | | 86 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.08728 | | mg/Kg | | 87 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1933 | | mg/Kg | | 97 | 70 - 130 | |
| o-Xylene | 0.100 | 0.08990 | | mg/Kg | | 90 | 70 - 130 | |

| Surrogate | LCS | LCS | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | 09/26/23 11:47 | 09/30/23 22:53 | 1 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | 09/26/23 11:47 | 09/30/23 22:53 | 1 |

Client Sample ID: Lab Control Sample**Prep Type: Total/NA****Prep Batch: 63329****Lab Sample ID: LCSD 880-63329/2-A****Matrix: Solid****Analysis Batch: 63583**

| Analyte | Spikes | LCSD | LCSD | Unit | D | %Rec | Limits | %Rec | RPD | Limit |
|---------------------|--------|---------|-----------|-------|---|------|----------|------|-----|-------|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.1020 | | mg/Kg | | 102 | 70 - 130 | 7 | 35 | |
| Toluene | 0.100 | 0.09114 | | mg/Kg | | 91 | 70 - 130 | 6 | 35 | |
| Ethylbenzene | 0.100 | 0.09396 | | mg/Kg | | 94 | 70 - 130 | 7 | 35 | |
| m-Xylene & p-Xylene | 0.200 | 0.2072 | | mg/Kg | | 104 | 70 - 130 | 7 | 35 | |
| o-Xylene | 0.100 | 0.09677 | | mg/Kg | | 97 | 70 - 130 | 7 | 35 | |

| Surrogate | LCSD | LCSD | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | 09/26/23 11:47 | 09/30/23 22:53 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 09/26/23 11:47 | 09/30/23 22:53 | 1 |

Client Sample ID: Lab Control Sample Dup**Prep Type: Total/NA****Prep Batch: 63329****Lab Sample ID: 880-33598-A-1-C MS****Matrix: Solid****Analysis Batch: 63583**

| Analyte | Sample | Sample | Spikes | MS | MS | Unit | D | %Rec | Limits |
|---------|----------|-----------|--------|---------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Benzene | <0.00199 | U | 0.0998 | 0.09262 | | mg/Kg | | 93 | 70 - 130 |
| Toluene | <0.00199 | U | 0.0998 | 0.08525 | | mg/Kg | | 85 | 70 - 130 |

Client Sample ID: Matrix Spike**Prep Type: Total/NA****Prep Batch: 63329**

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QC Sample Results

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 880-33598-A-1-C MS****Matrix: Solid****Analysis Batch: 63583**

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 63329

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|----|----------|--------|
| Ethylbenzene | <0.00199 | U | 0.0998 | 0.08089 | | mg/Kg | 81 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.200 | 0.1860 | | mg/Kg | 93 | 70 - 130 | |
| o-Xylene | <0.00199 | U | 0.0998 | 0.08966 | | mg/Kg | 90 | 70 - 130 | |

| Surrogate | MS | | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 |

Lab Sample ID: 880-33598-A-1-D MSD**Matrix: Solid****Analysis Batch: 63583**

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 63329

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|-----|----------|-----|
| Benzene | <0.00199 | U | 0.0990 | 0.1018 | | mg/Kg | 103 | 70 - 130 | 9 |
| Toluene | <0.00199 | U | 0.0990 | 0.08439 | | mg/Kg | 85 | 70 - 130 | 1 |
| Ethylbenzene | <0.00199 | U | 0.0990 | 0.08888 | | mg/Kg | 90 | 70 - 130 | 9 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.198 | 0.1999 | | mg/Kg | 101 | 70 - 130 | 7 |
| o-Xylene | <0.00199 | U | 0.0990 | 0.09272 | | mg/Kg | 94 | 70 - 130 | 3 |

| Surrogate | MSD | | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 |

Lab Sample ID: MB 880-63562/5-A**Matrix: Solid****Analysis Batch: 63583**

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63562

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/28/23 17:46 | 09/30/23 11:17 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/28/23 17:46 | 09/30/23 11:17 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/28/23 17:46 | 09/30/23 11:17 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 09/28/23 17:46 | 09/30/23 11:17 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/28/23 17:46 | 09/30/23 11:17 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 09/28/23 17:46 | 09/30/23 11:17 | 1 |

| Surrogate | MB | | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 142 | S1+ | 70 - 130 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-63901/1-A****Matrix: Solid****Analysis Batch: 63913**

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63901

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 07:45 | 1 |

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QC Sample Results

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: MB 880-63901/1-A****Matrix: Solid****Analysis Batch: 63913****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 63901**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-------------------------|-------------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 07:45 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 10/03/23 16:26 | 10/04/23 07:45 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 137 | S1+ | 70 - 130 | | | | 10/03/23 16:26 | 10/04/23 07:45 | 1 |
| <i>o-Terphenyl</i> | 129 | | 70 - 130 | | | | 10/03/23 16:26 | 10/04/23 07:45 | 1 |

Lab Sample ID: LCS 880-63901/2-A**Matrix: Solid****Analysis Batch: 63913****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 63901**

| Analyte | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|--------------------------|--------------------------|---------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | | 1000 | 912.7 | | mg/Kg | | 91 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | | 1000 | 907.4 | | mg/Kg | | 91 | 70 - 130 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | | |
| 1-Chlorooctane | 131 | S1+ | 70 - 130 | | | | | |
| <i>o-Terphenyl</i> | 138 | S1+ | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-63901/3-A**Matrix: Solid****Analysis Batch: 63913****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 63901**

| Analyte | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------------------|---------------------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | | 1000 | 897.4 | | mg/Kg | | 90 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | | 1000 | 894.8 | | mg/Kg | | 89 | 70 - 130 | 1 | 20 |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | 102 | | 70 - 130 | | | | | | | |
| <i>o-Terphenyl</i> | 107 | | 70 - 130 | | | | | | | |

Lab Sample ID: 890-5331-1 MS**Matrix: Solid****Analysis Batch: 63913****Client Sample ID: BH23-01 0'****Prep Type: Total/NA****Prep Batch: 63901**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------------------|-------------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 999 | 813.5 | | mg/Kg | | 79 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 999 | 1053 | | mg/Kg | | 103 | 70 - 130 |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 137 | S1+ | 70 - 130 | | | | | | |
| <i>o-Terphenyl</i> | 110 | | 70 - 130 | | | | | | |

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QC Sample Results

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Lab Sample ID: 890-5331-1 MSD
Matrix: Solid
Analysis Batch: 63913
Client Sample ID: BH23-01 0'
Prep Type: Total/NA
Prep Batch: 63901

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 999 | 835.4 | | mg/Kg | | 81 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 999 | 1108 | | mg/Kg | | 108 | 70 - 130 | 5 | 20 |
| Surrogate | | | | | | | | | | | |
| MSD MSD %Recovery Qualifier Limits | | | | | | | | | | | |
| 1-Chlorooctane | 144 | S1+ | | 70 - 130 | | | | | | | |
| o-Terphenyl | 115 | | | 70 - 130 | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography
Lab Sample ID: MB 880-63860/1-A
Matrix: Solid
Analysis Batch: 63882
Client Sample ID: Method Blank
Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|----|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | | 5.00 | mg/Kg | | | 10/03/23 14:25 | 1 |

Lab Sample ID: LCS 880-63860/2-A
Matrix: Solid
Analysis Batch: 63882
Client Sample ID: Lab Control Sample
Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|-------------|------------|---------------|-------|---|------|----------|
| Chloride | 250 | 247.7 | | mg/Kg | | 99 | 90 - 110 |

Lab Sample ID: LCSD 880-63860/3-A
Matrix: Solid
Analysis Batch: 63882
Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|----------|-----|-----------|
| Chloride | 250 | 249.2 | | mg/Kg | | 100 | 90 - 110 | 1 | 20 |

Lab Sample ID: 880-33936-A-2-C MS
Matrix: Solid
Analysis Batch: 63882
Client Sample ID: Matrix Spike
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Chloride | 967 | F1 | 1250 | 2613 | F1 | mg/Kg | | 132 | 90 - 110 |

Lab Sample ID: 880-33936-A-2-E MSD
Matrix: Solid
Analysis Batch: 63882
Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-----------|
| Chloride | 967 | F1 | 1250 | 2608 | F1 | mg/Kg | | 132 | 90 - 110 | 0 | 20 |

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QC Association Summary

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

GC VOA**Prep Batch: 63329**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5331-1 | BH23-01 0' | Total/NA | Solid | 5035 | |
| 890-5331-2 | BH23-01 2' | Total/NA | Solid | 5035 | |
| 890-5331-3 | BH23-02 0' | Total/NA | Solid | 5035 | |
| 890-5331-4 | BH23-02 2' | Total/NA | Solid | 5035 | |
| MB 880-63329/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-63329/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-63329/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-33598-A-1-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-33598-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Prep Batch: 63562

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-63562/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 63583

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5331-1 | BH23-01 0' | Total/NA | Solid | 8021B | 63329 |
| 890-5331-2 | BH23-01 2' | Total/NA | Solid | 8021B | 63329 |
| 890-5331-3 | BH23-02 0' | Total/NA | Solid | 8021B | 63329 |
| 890-5331-4 | BH23-02 2' | Total/NA | Solid | 8021B | 63329 |
| MB 880-63329/5-A | Method Blank | Total/NA | Solid | 8021B | 63329 |
| MB 880-63562/5-A | Method Blank | Total/NA | Solid | 8021B | 63562 |
| LCS 880-63329/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 63329 |
| LCSD 880-63329/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 63329 |
| 880-33598-A-1-C MS | Matrix Spike | Total/NA | Solid | 8021B | 63329 |
| 880-33598-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 63329 |

Analysis Batch: 63789

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5331-1 | BH23-01 0' | Total/NA | Solid | Total BTEX | |
| 890-5331-2 | BH23-01 2' | Total/NA | Solid | Total BTEX | |
| 890-5331-3 | BH23-02 0' | Total/NA | Solid | Total BTEX | |
| 890-5331-4 | BH23-02 2' | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Prep Batch: 63901**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-5331-1 | BH23-01 0' | Total/NA | Solid | 8015NM Prep | |
| 890-5331-2 | BH23-01 2' | Total/NA | Solid | 8015NM Prep | |
| 890-5331-3 | BH23-02 0' | Total/NA | Solid | 8015NM Prep | |
| 890-5331-4 | BH23-02 2' | Total/NA | Solid | 8015NM Prep | |
| MB 880-63901/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-63901/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-63901/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-5331-1 MS | BH23-01 0' | Total/NA | Solid | 8015NM Prep | |
| 890-5331-1 MSD | BH23-01 0' | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 63913

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-5331-1 | BH23-01 0' | Total/NA | Solid | 8015B NM | 63901 |

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QC Association Summary

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

GC Semi VOA (Continued)**Analysis Batch: 63913 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5331-2 | BH23-01 2' | Total/NA | Solid | 8015B NM | 63901 |
| 890-5331-3 | BH23-02 0' | Total/NA | Solid | 8015B NM | 63901 |
| 890-5331-4 | BH23-02 2' | Total/NA | Solid | 8015B NM | 63901 |
| MB 880-63901/1-A | Method Blank | Total/NA | Solid | 8015B NM | 63901 |
| LCS 880-63901/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 63901 |
| LCSD 880-63901/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 63901 |
| 890-5331-1 MS | BH23-01 0' | Total/NA | Solid | 8015B NM | 63901 |
| 890-5331-1 MSD | BH23-01 0' | Total/NA | Solid | 8015B NM | 63901 |

Analysis Batch: 64010

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5331-1 | BH23-01 0' | Total/NA | Solid | 8015 NM | 10 |
| 890-5331-2 | BH23-01 2' | Total/NA | Solid | 8015 NM | 11 |
| 890-5331-3 | BH23-02 0' | Total/NA | Solid | 8015 NM | 12 |
| 890-5331-4 | BH23-02 2' | Total/NA | Solid | 8015 NM | 13 |

HPLC/IC**Leach Batch: 63860**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-5331-1 | BH23-01 0' | Soluble | Solid | DI Leach | 14 |
| 890-5331-2 | BH23-01 2' | Soluble | Solid | DI Leach | |
| 890-5331-3 | BH23-02 0' | Soluble | Solid | DI Leach | |
| 890-5331-4 | BH23-02 2' | Soluble | Solid | DI Leach | |
| MB 880-63860/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-63860/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-63860/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-33936-A-2-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-33936-A-2-E MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 63882

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5331-1 | BH23-01 0' | Soluble | Solid | 300.0 | 63860 |
| 890-5331-2 | BH23-01 2' | Soluble | Solid | 300.0 | 63860 |
| 890-5331-3 | BH23-02 0' | Soluble | Solid | 300.0 | 63860 |
| 890-5331-4 | BH23-02 2' | Soluble | Solid | 300.0 | 63860 |
| MB 880-63860/1-A | Method Blank | Soluble | Solid | 300.0 | 63860 |
| LCS 880-63860/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 63860 |
| LCSD 880-63860/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 63860 |
| 880-33936-A-2-C MS | Matrix Spike | Soluble | Solid | 300.0 | 63860 |
| 880-33936-A-2-E MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 63860 |

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Lab Chronicle

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

Client Sample ID: BH23-01 0'
Date Collected: 09/22/23 09:00
Date Received: 09/22/23 16:10

Lab Sample ID: 890-5331-1
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 63329 | 09/26/23 11:47 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63583 | 10/01/23 00:44 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63789 | 10/01/23 00:44 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 64010 | 10/04/23 10:29 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 63901 | 10/03/23 16:26 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63913 | 10/04/23 10:29 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 63860 | 10/03/23 11:02 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63882 | 10/03/23 16:44 | CH | EET MID |

Client Sample ID: BH23-01 2'
Date Collected: 09/22/23 09:05
Date Received: 09/22/23 16:10

Lab Sample ID: 890-5331-2
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 63329 | 09/26/23 11:47 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63583 | 10/01/23 01:04 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63789 | 10/01/23 01:04 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 64010 | 10/04/23 11:36 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.94 g | 10 mL | 63901 | 10/03/23 16:26 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63913 | 10/04/23 11:36 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 63860 | 10/03/23 11:02 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63882 | 10/03/23 17:04 | CH | EET MID |

Client Sample ID: BH23-02 0'
Date Collected: 09/22/23 09:10
Date Received: 09/22/23 16:10

Lab Sample ID: 890-5331-3
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 63329 | 09/26/23 11:47 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63583 | 10/01/23 01:24 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63789 | 10/01/23 01:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 64010 | 10/04/23 11:58 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.99 g | 10 mL | 63901 | 10/03/23 16:26 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63913 | 10/04/23 11:58 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 63860 | 10/03/23 11:02 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63882 | 10/03/23 17:11 | CH | EET MID |

Client Sample ID: BH23-02 2'
Date Collected: 09/22/23 09:15
Date Received: 09/22/23 16:10

Lab Sample ID: 890-5331-4
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 63329 | 09/26/23 11:47 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63583 | 10/01/23 01:45 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63789 | 10/01/23 01:45 | SM | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

Client Sample ID: BH23-02 2'
Date Collected: 09/22/23 09:15
Date Received: 09/22/23 16:10

Lab Sample ID: 890-5331-4
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 64010 | 10/04/23 12:20 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.92 g | 10 mL | 63901 | 10/03/23 16:26 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63913 | 10/04/23 12:20 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 63860 | 10/03/23 11:02 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63882 | 10/03/23 17:17 | CH | EET MID |

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Eurofins Carlsbad

Accreditation/Certification Summary

Client: Vertex
Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
SDG: 23E-05219

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-23-26 | 06-30-24 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

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Eurofins Carlsbad

Method Summary

Client: Vertex
Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
SDG: 23E-05219

| Method | Method Description | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 300.0 | Anions, Ion Chromatography | EPA | EET MID |
| 5035 | Closed System Purge and Trap | SW846 | EET MID |
| 8015NM Prep | Microextraction | SW846 | EET MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | EET MID |

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5331-1
 SDG: 23E-05219

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-5331-1 | BH23-01 0' | Solid | 09/22/23 09:00 | 09/22/23 16:10 | 0' |
| 890-5331-2 | BH23-01 2' | Solid | 09/22/23 09:05 | 09/22/23 16:10 | 2' |
| 890-5331-3 | BH23-02 0' | Solid | 09/22/23 09:10 | 09/22/23 16:10 | 0' |
| 890-5331-4 | BH23-02 2' | Solid | 09/22/23 09:15 | 09/22/23 16:10 | 2' |

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Environment Testing

Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No.

| | | | | |
|---|---|---|-------------------------------|---|
| Project Manager: | Chane Dixon | Bill to: (if different) | <i>Garrett Green</i> | |
| Company Name: | <i>XTO</i> | Company Name: | | |
| Address: | | Address: | | |
| City, State ZIP: | | City, State ZIP: | | |
| Phone: | | Email: | <i>cldixon@vertex.cc</i> | |
| ANALYSIS REQUEST | | | | |
| Project Name: | <i>Mis Nueces CTBS</i> | Turn Around | | |
| Project Number: | <i>23E-0581G</i> | Routine <input type="checkbox"/> | Rush <input type="checkbox"/> | Pres. Code |
| Project Location: | | Due Date: | | |
| Samplers Name: | <i>Hunter Klein</i> | TAT starts the day received by the lab, if received by 4:30pm | | |
| PO #: | | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice: <i>No</i> | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| SAMPLE RECEIPT | Temp Blank: <i>(Yes) No</i> | Thermometer ID: <i>20007</i> | Parameters | |
| Samples Received intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Correction Factor: <i>~0.2</i> | # of Comp | |
| Cooler Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Temperature Reading: <i>2.0</i> | # of Cont | |
| Sample Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Corrected Temperature: <i>1.8</i> | Grab | |
| Total Containers: | | | Date Sampled | Time Sampled |
| Sample Identification | Matrix | | | |
| <i>BH23-01</i> | <i>Soil</i> | <i>9/23/23</i> | <i>9:00</i> | <i>X X X X X X</i> |
| <i>BH23-02</i> | <i>Soil</i> | <i>9/23/23</i> | <i>9:05</i> | <i>X X X X X X</i> |
| <i>BH23-02</i> | <i>Soil</i> | <i>9/23/23</i> | <i>9:10</i> | <i>X X X X X X</i> |
| <i>BH23-02</i> | <i>Soil</i> | <i>9/23/23</i> | <i>9:15</i> | <i>X X X X X X</i> |
| Sample Comments | | | | |
| <i>TEST CHT HCF XTE C</i> | | | | |
| 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn | | | | |
| 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn | | | | |
| Hg 1631 / 245, 1 / 7470 / 7471 | | | | |
| <small>Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and sub-contractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.</small> | | | | |
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Date/Time |
| <i>Hunter Klein</i> | <i>Colleen</i> | <i>16 10 9-22</i> | | |
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| 4 | | | | |
| 5 | | | | |

Login Sample Receipt Checklist

Client: Vertex

Job Number: 890-5331-1
SDG Number: 23E-05219**Login Number:** 5331**List Source:** Eurofins Carlsbad**List Number:** 1**Creator:** Bruns, Shannon**Question****Answer****Comment**

| | | |
|--|------|-------------------------------------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | N/A | Refer to Job Narrative for details. |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

Login Sample Receipt Checklist

Client: Vertex

Job Number: 890-5331-1
SDG Number: 23E-05219**Login Number:** 5331**List Source:** Eurofins Midland**List Number:** 2**List Creation:** 09/26/23 10:43 AM**Creator:** Rodriguez, Leticia

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | N/A | | 1 |
| Sample custody seals, if present, are intact. | N/A | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| Sample collection date/times are provided. | True | | |
| Appropriate sample containers are used. | True | | |
| Sample bottles are completely filled. | True | | |
| Sample Preservation Verified. | N/A | | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | | |



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 10/3/2023 12:23:52 PM

JOB DESCRIPTION

Mis Amigos CTB
SDG NUMBER 23E-05219

JOB NUMBER

890-5338-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
10/3/2023 12:23:52 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Vertex
Project/Site: Mis Amigos CTB

Laboratory Job ID: 890-5338-1
SDG: 23E-05219

Table of Contents

| | | |
|------------------------------|----|----|
| Cover Page | 1 | 3 |
| Table of Contents | 3 | 4 |
| Definitions/Glossary | 4 | 5 |
| Case Narrative | 5 | 6 |
| Client Sample Results | 6 | 7 |
| Surrogate Summary | 11 | 8 |
| QC Sample Results | 12 | 9 |
| QC Association Summary | 16 | 10 |
| Lab Chronicle | 18 | 11 |
| Certification Summary | 20 | 12 |
| Method Summary | 21 | 13 |
| Sample Summary | 22 | 14 |
| Chain of Custody | 23 | |
| Receipt Checklists | 25 | |

Definitions/Glossary

Client: Vertex

Job ID: 890-5338-1

Project/Site: Mis Amigos CTB

SDG: 23E-05219

Qualifiers**GC VOA**

| Qualifier | Qualifier Description |
|-----------|--|
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |

Glossary**Abbreviation** These commonly used abbreviations may or may not be present in this report.

| | |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Eurofins Carlsbad

Case Narrative

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5338-1
 SDG: 23E-05219

Job ID: 890-5338-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-5338-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/25/2023 4:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH23-03 0 (890-5338-1), BH23-03 2 (890-5338-2), BH23-04 0 (890-5338-3), BH23-04 2 (890-5338-4), BH23-05 2 (890-5338-5) and BH23-05 0 (890-5338-6).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63670 and analytical batch 880-63715 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-63535 and analytical batch 880-63577 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH23-04 2 (890-5338-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5338-1
 SDG: 23E-05219

Client Sample ID: BH23-03 0
 Date Collected: 09/25/23 09:30
 Date Received: 09/25/23 16:18

Lab Sample ID: 890-5338-1
 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 17:44 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 17:44 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 17:44 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 17:44 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 17:44 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 17:44 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92 | | | 70 - 130 | | | 09/29/23 16:40 | 10/02/23 17:44 | 1 |
| 1,4-Difluorobenzene (Surr) | 107 | | | 70 - 130 | | | 09/29/23 16:40 | 10/02/23 17:44 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 10/02/23 17:44 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 09/29/23 10:55 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 10:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 10:55 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 10:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 115 | | 70 - 130 | | | | 09/28/23 13:45 | 09/29/23 10:55 | 1 |
| o-Terphenyl | 103 | | 70 - 130 | | | | 09/28/23 13:45 | 09/29/23 10:55 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 136 | | 5.02 | | mg/Kg | | | 09/28/23 21:18 | 1 |

Client Sample ID: BH23-03 2**Lab Sample ID: 890-5338-2**

Date Collected: 09/25/23 09:35
 Date Received: 09/25/23 16:18

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 18:04 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 18:04 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 18:04 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 18:04 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 18:04 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 18:04 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 | | | | 09/29/23 16:40 | 10/02/23 18:04 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | | | | 09/29/23 16:40 | 10/02/23 18:04 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5338-1
 SDG: 23E-05219

Client Sample ID: BH23-03 2**Lab Sample ID: 890-5338-2**

Matrix: Solid

Date Collected: 09/25/23 09:35
 Date Received: 09/25/23 16:18

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 10/02/23 18:04 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.5 | U | 50.5 | | mg/Kg | | | 09/29/23 12:02 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5 | U | 50.5 | | mg/Kg | | | 09/29/23 12:02 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.5 | U | 50.5 | | mg/Kg | | | 09/29/23 12:02 | 1 |
| OII Range Organics (Over C28-C36) | <50.5 | U | 50.5 | | mg/Kg | | | 09/29/23 12:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 87 | | 70 - 130 | | | | 09/28/23 13:45 | 09/29/23 12:02 | 1 |
| <i>o</i> -Terphenyl | 79 | | 70 - 130 | | | | 09/28/23 13:45 | 09/29/23 12:02 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 112 | | 5.05 | | mg/Kg | | | 09/28/23 21:38 | 1 |

Client Sample ID: BH23-04 0**Lab Sample ID: 890-5338-3**

Matrix: Solid

Date Collected: 09/25/23 09:40
 Date Received: 09/25/23 16:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | | 10/02/23 18:25 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | | 10/02/23 18:25 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | | 10/02/23 18:25 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | | 10/02/23 18:25 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | | 10/02/23 18:25 | 1 |
| <i>o</i> -Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | | 10/02/23 18:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 | | | | 09/29/23 16:40 | 10/02/23 18:25 | 1 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | | | | 09/29/23 16:40 | 10/02/23 18:25 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 10/02/23 18:25 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 09/29/23 12:24 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | | 09/29/23 12:24 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | | 09/29/23 12:24 | 1 |

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Client Sample Results

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5338-1
 SDG: 23E-05219

Client Sample ID: BH23-04 0**Lab Sample ID: 890-5338-3**

Date Collected: 09/25/23 09:40
 Date Received: 09/25/23 16:18

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 12:24 | 1 |
| Surrogate | | | | | | | | | |
| 1-Chlorooctane | 126 | | 70 - 130 | | | | 09/28/23 13:45 | 09/29/23 12:24 | 1 |
| o-Terphenyl | 112 | | 70 - 130 | | | | 09/28/23 13:45 | 09/29/23 12:24 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 32.5 | | 4.99 | | mg/Kg | | | 09/28/23 21:44 | 1 |

Client Sample ID: BH23-04 2**Lab Sample ID: 890-5338-4**

Date Collected: 09/25/23 09:45
 Date Received: 09/25/23 16:18

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 18:45 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 18:45 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 18:45 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 18:45 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 18:45 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 18:45 | 1 |
| Surrogate | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | | | | 09/29/23 16:40 | 10/02/23 18:45 | 1 |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 | | | | 09/29/23 16:40 | 10/02/23 18:45 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 10/02/23 18:45 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.7 | U | 49.7 | | mg/Kg | | | 09/29/23 12:46 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 49.7 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 12:46 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 12:46 | 1 |
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 12:46 | 1 |
| Surrogate | | | | | | | | | |
| 1-Chlorooctane | 133 | S1+ | 70 - 130 | | | | 09/28/23 13:45 | 09/29/23 12:46 | 1 |
| o-Terphenyl | 119 | | 70 - 130 | | | | 09/28/23 13:45 | 09/29/23 12:46 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 37.3 | | 5.00 | | mg/Kg | | | 09/28/23 21:51 | 1 |

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Client Sample Results

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5338-1
 SDG: 23E-05219

Client Sample ID: BH23-05 2**Lab Sample ID: 890-5338-5**

Date Collected: 09/25/23 09:50
 Date Received: 09/25/23 16:18

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 19:05 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 19:05 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 19:05 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 19:05 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 19:05 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 19:05 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 106 | | | 70 - 130 | | | 09/29/23 16:40 | 10/02/23 19:05 | 1 |
| 1,4-Difluorobenzene (Surr) | 108 | | | 70 - 130 | | | 09/29/23 16:40 | 10/02/23 19:05 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 10/02/23 19:05 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 09/29/23 13:09 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 13:09 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 13:09 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 13:09 | 1 |
| Surrogate | | | | | | | | | |
| 1-Chlorooctane | 125 | | 70 - 130 | | | | 09/28/23 13:45 | 09/29/23 13:09 | 1 |
| o-Terphenyl | 114 | | 70 - 130 | | | | 09/28/23 13:45 | 09/29/23 13:09 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 108 | | 5.00 | | mg/Kg | | | 09/28/23 21:58 | 1 |

Client Sample ID: BH23-05 0**Lab Sample ID: 890-5338-6**

Date Collected: 09/25/23 09:55
 Date Received: 09/25/23 16:18

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 19:26 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 19:26 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 19:26 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 19:26 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 19:26 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 09/29/23 16:40 | 10/02/23 19:26 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102 | | | 70 - 130 | | | 09/29/23 16:40 | 10/02/23 19:26 | 1 |
| 1,4-Difluorobenzene (Surr) | 110 | | | 70 - 130 | | | 09/29/23 16:40 | 10/02/23 19:26 | 1 |

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Client Sample Results

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5338-1
 SDG: 23E-05219

Client Sample ID: BH23-05 0
 Date Collected: 09/25/23 09:55
 Date Received: 09/25/23 16:18

Lab Sample ID: 890-5338-6
 Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | | mg/Kg | | | 10/02/23 19:26 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 09/29/23 13:31 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 13:31 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 13:31 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 13:31 | 1 |

Surrogate

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 111 | | 70 - 130 | 09/28/23 13:45 | 09/29/23 13:31 | 1 |
| <i>o</i> -Terphenyl | 101 | | 70 - 130 | 09/28/23 13:45 | 09/29/23 13:31 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 55.0 | | 5.04 | | mg/Kg | | | 09/28/23 22:04 | 1 |

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Surrogate Summary

Client: Vertex

Job ID: 890-5338-1

Project/Site: Mis Amigos CTB

SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) | | | | | | | | | |
|--------------------|------------------------|------------------|-------------------|--|--|--|--|--|--|--|--|--|
| 890-5338-1 | BH23-03 0 | 92 | 107 | | | | | | | | | |
| 890-5338-2 | BH23-03 2 | 100 | 102 | | | | | | | | | |
| 890-5338-3 | BH23-04 0 | 99 | 107 | | | | | | | | | |
| 890-5338-4 | BH23-04 2 | 101 | 112 | | | | | | | | | |
| 890-5338-5 | BH23-05 2 | 106 | 108 | | | | | | | | | |
| 890-5338-6 | BH23-05 0 | 102 | 110 | | | | | | | | | |
| 890-5373-A-1-A MS | Matrix Spike | 107 | 108 | | | | | | | | | |
| 890-5373-A-1-B MSD | Matrix Spike Duplicate | 105 | 102 | | | | | | | | | |
| LCS 880-63670/1-A | Lab Control Sample | 98 | 100 | | | | | | | | | |
| LCSD 880-63670/2-A | Lab Control Sample Dup | 95 | 101 | | | | | | | | | |
| MB 880-63670/5-A | Method Blank | 116 | 141 S1+ | | | | | | | | | |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) | | | | | | | | | |
|--------------------|------------------------|------------------|-------------------|--|--|--|--|--|--|--|--|--|
| 890-5338-1 | BH23-03 0 | 115 | 103 | | | | | | | | | |
| 890-5338-1 MS | BH23-03 0 | 116 | 94 | | | | | | | | | |
| 890-5338-1 MSD | BH23-03 0 | 119 | 95 | | | | | | | | | |
| 890-5338-2 | BH23-03 2 | 87 | 79 | | | | | | | | | |
| 890-5338-3 | BH23-04 0 | 126 | 112 | | | | | | | | | |
| 890-5338-4 | BH23-04 2 | 133 S1+ | 119 | | | | | | | | | |
| 890-5338-5 | BH23-05 2 | 125 | 114 | | | | | | | | | |
| 890-5338-6 | BH23-05 0 | 111 | 101 | | | | | | | | | |
| LCS 880-63535/2-A | Lab Control Sample | 111 | 128 | | | | | | | | | |
| LCSD 880-63535/3-A | Lab Control Sample Dup | 115 | 125 | | | | | | | | | |
| MB 880-63535/1-A | Method Blank | 176 S1+ | 174 S1+ | | | | | | | | | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Vertex

Job ID: 890-5338-1

Project/Site: Mis Amigos CTB

SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-63670/5-A****Matrix: Solid****Analysis Batch: 63715****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 63670**

| Analyte | MB | MB | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-----------|-----------|----------------|----------------|----------------|---------|----------|----------|---------|
| | Result | Qualifier | | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 09/29/23 16:40 | 10/02/23 12:00 | 1 | | | |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 09/29/23 16:40 | 10/02/23 12:00 | 1 | | | |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 09/29/23 16:40 | 10/02/23 12:00 | 1 | | | |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 09/29/23 16:40 | 10/02/23 12:00 | 1 | | | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 09/29/23 16:40 | 10/02/23 12:00 | 1 | | | |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 09/29/23 16:40 | 10/02/23 12:00 | 1 | | | |
| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | |
| | Result | Qualifier | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 116 | | 70 - 130 | | 09/29/23 16:40 | 10/02/23 12:00 | 1 | | | | |
| 1,4-Difluorobenzene (Surr) | 141 | S1+ | 70 - 130 | | 09/29/23 16:40 | 10/02/23 12:00 | 1 | | | | |

Lab Sample ID: LCS 880-63670/1-A**Matrix: Solid****Analysis Batch: 63715****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 63670**

| Analyte | Spikes | LCS | LCS | Result | Qualifier | Unit | D | %Rec | Limits | | |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------|----------|---------|--------|--|--|
| | Added | Result | Qualifier | | | | | | | | |
| Benzene | 0.100 | 0.1067 | | mg/Kg | 107 | 70 - 130 | | | | | |
| Ethylbenzene | 0.100 | 0.1003 | | mg/Kg | 100 | 70 - 130 | | | | | |
| Toluene | 0.100 | 0.1006 | | mg/Kg | 101 | 70 - 130 | | | | | |
| m-Xylene & p-Xylene | 0.200 | 0.2199 | | mg/Kg | 110 | 70 - 130 | | | | | |
| o-Xylene | 0.100 | 0.1011 | | mg/Kg | 101 | 70 - 130 | | | | | |
| Surrogate | LCS | LCS | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | |
| | Result | Qualifier | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | | | | | | | | |

Lab Sample ID: LCSD 880-63670/2-A**Matrix: Solid****Analysis Batch: 63715****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 63670**

| Analyte | Spikes | LCSD | LCSD | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------|----------|---------|--------|-----|-------|
| | Added | Result | Qualifier | | | | | | | | |
| Benzene | 0.100 | 0.1116 | | mg/Kg | 112 | 70 - 130 | | | | 5 | 35 |
| Ethylbenzene | 0.100 | 0.09783 | | mg/Kg | 98 | 70 - 130 | | | | 3 | 35 |
| Toluene | 0.100 | 0.1030 | | mg/Kg | 103 | 70 - 130 | | | | 2 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2063 | | mg/Kg | 103 | 70 - 130 | | | | 6 | 35 |
| o-Xylene | 0.100 | 0.09615 | | mg/Kg | 96 | 70 - 130 | | | | 5 | 35 |
| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | |
| | Result | Qualifier | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-5373-A-1-A MS**Matrix: Solid****Analysis Batch: 63715****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 63670**

| Analyte | Sample | Sample | Spikes | MS Result | MS Qualifier | Unit | D | %Rec | Limits | |
|--------------|----------|-----------|--------|-----------|--------------|-------|-----|----------|--------|--|
| | Result | Qualifier | Added | | | | | | | |
| Benzene | <0.00200 | U | 0.0990 | 0.1060 | | mg/Kg | 107 | 70 - 130 | | |
| Ethylbenzene | <0.00200 | U | 0.0990 | 0.08474 | | mg/Kg | 86 | 70 - 130 | | |

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QC Sample Results

Client: Vertex

Job ID: 890-5338-1

Project/Site: Mis Amigos CTB

SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 890-5373-A-1-A MS****Matrix: Solid****Analysis Batch: 63715****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 63670**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|-----------------------------|----------|------------------|------------------|---------------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits |
| Toluene | <0.00200 | U | 0.0990 | 0.09041 | | mg/Kg | | 91 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.198 | 0.1831 | | mg/Kg | | 92 | 70 - 130 |
| o-Xylene | <0.00200 | U | 0.0990 | 0.09980 | | mg/Kg | | 100 | 70 - 130 |
| Surrogate | | %Recovery | Qualifier | Limits | | | | | |
| 4-Bromofluorobenzene (Surr) | 107 | | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 108 | | | 70 - 130 | | | | | |

Lab Sample ID: 890-5373-A-1-B MSD**Matrix: Solid****Analysis Batch: 63715****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 63670**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD |
|-----------------------------|----------|------------------|------------------|---------------|-----------|-------|---|------|----------|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | RPD | Limit |
| Benzene | <0.00200 | U | 0.0990 | 0.09539 | | mg/Kg | | 96 | 70 - 130 | 11 |
| Ethylbenzene | <0.00200 | U | 0.0990 | 0.08686 | | mg/Kg | | 88 | 70 - 130 | 2 |
| Toluene | <0.00200 | U | 0.0990 | 0.08679 | | mg/Kg | | 88 | 70 - 130 | 4 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.198 | 0.1965 | | mg/Kg | | 99 | 70 - 130 | 7 |
| o-Xylene | <0.00200 | U | 0.0990 | 0.09409 | | mg/Kg | | 95 | 70 - 130 | 6 |
| Surrogate | | %Recovery | Qualifier | Limits | | | | | | |
| 4-Bromofluorobenzene (Surr) | 105 | | | 70 - 130 | | | | | | |
| 1,4-Difluorobenzene (Surr) | 102 | | | 70 - 130 | | | | | | |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-63535/1-A****Matrix: Solid****Analysis Batch: 63577****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 63535**

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| | Result | Qualifier | | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 08:01 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 08:01 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 09/28/23 13:45 | 09/29/23 08:01 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 176 | S1+ | 70 - 130 | | | | 09/28/23 13:45 | 09/29/23 08:01 | 1 |
| o-Terphenyl | 174 | S1+ | 70 - 130 | | | | 09/28/23 13:45 | 09/29/23 08:01 | 1 |

Lab Sample ID: LCS 880-63535/2-A**Matrix: Solid****Analysis Batch: 63577****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 63535**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | Limits |
|--------------------------------------|-------|--------|-----------|-------|---|------|----------|
| | Added | Result | Qualifier | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1088 | | mg/Kg | | 109 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1062 | | mg/Kg | | 106 | 70 - 130 |

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QC Sample Results

Client: Vertex

Job ID: 890-5338-1

Project/Site: Mis Amigos CTB

SDG: 23E-05219

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: LCS 880-63535/2-A****Matrix: Solid****Analysis Batch: 63577****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 63535**

| Surrogate | LCS | LCS | |
|---------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 111 | | 70 - 130 |
| <i>o</i> -Terphenyl | 128 | | 70 - 130 |

Lab Sample ID: LCSD 880-63535/3-A**Matrix: Solid****Analysis Batch: 63577****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 63535**

| Analyte | Spike | LCSD | LCSD | | %Rec | RPD |
|--------------------------------------|--------------|---------------|------------------|-------------|-------------|--------------|
| | Added | Result | Qualifier | Unit | D | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1105 | | mg/Kg | 111 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1060 | | mg/Kg | 106 | 70 - 130 |

| Surrogate | LCSD | LCSD | |
|---------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 115 | | 70 - 130 |
| <i>o</i> -Terphenyl | 125 | | 70 - 130 |

Lab Sample ID: 890-5338-1 MS**Matrix: Solid****Analysis Batch: 63577****Client Sample ID: BH23-03 0****Prep Type: Total/NA****Prep Batch: 63535**

| Analyte | Sample | Sample | Spike | MS | MS | | %Rec |
|--------------------------------------|---------------|------------------|--------------|---------------|------------------|-------------|-------------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 1010 | 1293 | | mg/Kg | 125 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 1010 | 1151 | | mg/Kg | 114 |

| Surrogate | MS | MS | |
|---------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 116 | | 70 - 130 |
| <i>o</i> -Terphenyl | 94 | | 70 - 130 |

Lab Sample ID: 890-5338-1 MSD**Matrix: Solid****Analysis Batch: 63577****Client Sample ID: BH23-03 0****Prep Type: Total/NA****Prep Batch: 63535**

| Analyte | Sample | Sample | Spike | MSD | MSD | | %Rec |
|--------------------------------------|---------------|------------------|--------------|---------------|------------------|-------------|-------------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 1010 | 1312 | | mg/Kg | 127 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 1010 | 1174 | | mg/Kg | 117 |

| Surrogate | MSD | MSD | |
|---------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 119 | | 70 - 130 |
| <i>o</i> -Terphenyl | 95 | | 70 - 130 |

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QC Sample Results

Client: Vertex

Job ID: 890-5338-1

Project/Site: Mis Amigos CTB

SDG: 23E-05219

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: MB 880-63489/1-A****Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 63547**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 09/28/23 18:58 | 1 |

Lab Sample ID: LCS 880-63489/2-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 63547**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | | |
|----------|----------------|---------------|------------------|-------|---|------|----------|--|--|
| Chloride | 250 | 247.2 | | mg/Kg | | 99 | 90 - 110 | | |

Lab Sample ID: LCSD 880-63489/3-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 63547**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|----------|----------------|----------------|-------------------|-------|---|------|----------|-----|-------|
| Chloride | 250 | 247.7 | | mg/Kg | | 99 | 90 - 110 | 0 | 20 |

Lab Sample ID: 880-33744-A-1-B MS**Client Sample ID: Matrix Spike****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 63547**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits | |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------|--|
| Chloride | 739 | | 252 | 967.8 | | mg/Kg | | 91 | 90 - 110 | |

Lab Sample ID: 880-33744-A-1-C MSD**Client Sample ID: Matrix Spike Duplicate****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 63547**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------|-----|-------|
| Chloride | 739 | | 252 | 968.5 | | mg/Kg | | 91 | 90 - 110 | 0 | 20 |

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QC Association Summary

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5338-1
 SDG: 23E-05219

GC VOA**Prep Batch: 63670**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5338-1 | BH23-03 0 | Total/NA | Solid | 5035 | |
| 890-5338-2 | BH23-03 2 | Total/NA | Solid | 5035 | |
| 890-5338-3 | BH23-04 0 | Total/NA | Solid | 5035 | |
| 890-5338-4 | BH23-04 2 | Total/NA | Solid | 5035 | |
| 890-5338-5 | BH23-05 2 | Total/NA | Solid | 5035 | |
| 890-5338-6 | BH23-05 0 | Total/NA | Solid | 5035 | |
| MB 880-63670/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-63670/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-63670/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-5373-A-1-A MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-5373-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 63715

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5338-1 | BH23-03 0 | Total/NA | Solid | 8021B | 63670 |
| 890-5338-2 | BH23-03 2 | Total/NA | Solid | 8021B | 63670 |
| 890-5338-3 | BH23-04 0 | Total/NA | Solid | 8021B | 63670 |
| 890-5338-4 | BH23-04 2 | Total/NA | Solid | 8021B | 63670 |
| 890-5338-5 | BH23-05 2 | Total/NA | Solid | 8021B | 63670 |
| 890-5338-6 | BH23-05 0 | Total/NA | Solid | 8021B | 63670 |
| MB 880-63670/5-A | Method Blank | Total/NA | Solid | 8021B | 63670 |
| LCS 880-63670/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 63670 |
| LCSD 880-63670/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 63670 |
| 890-5373-A-1-A MS | Matrix Spike | Total/NA | Solid | 8021B | 63670 |
| 890-5373-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 63670 |

Analysis Batch: 63875

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5338-1 | BH23-03 0 | Total/NA | Solid | Total BTEX | |
| 890-5338-2 | BH23-03 2 | Total/NA | Solid | Total BTEX | |
| 890-5338-3 | BH23-04 0 | Total/NA | Solid | Total BTEX | |
| 890-5338-4 | BH23-04 2 | Total/NA | Solid | Total BTEX | |
| 890-5338-5 | BH23-05 2 | Total/NA | Solid | Total BTEX | |
| 890-5338-6 | BH23-05 0 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Prep Batch: 63535**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-5338-1 | BH23-03 0 | Total/NA | Solid | 8015NM Prep | |
| 890-5338-2 | BH23-03 2 | Total/NA | Solid | 8015NM Prep | |
| 890-5338-3 | BH23-04 0 | Total/NA | Solid | 8015NM Prep | |
| 890-5338-4 | BH23-04 2 | Total/NA | Solid | 8015NM Prep | |
| 890-5338-5 | BH23-05 2 | Total/NA | Solid | 8015NM Prep | |
| 890-5338-6 | BH23-05 0 | Total/NA | Solid | 8015NM Prep | |
| MB 880-63535/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-63535/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-63535/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-5338-1 MS | BH23-03 0 | Total/NA | Solid | 8015NM Prep | |
| 890-5338-1 MSD | BH23-03 0 | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5338-1
 SDG: 23E-05219

GC Semi VOA**Analysis Batch: 63577**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5338-1 | BH23-03 0 | Total/NA | Solid | 8015B NM | 63535 |
| 890-5338-2 | BH23-03 2 | Total/NA | Solid | 8015B NM | 63535 |
| 890-5338-3 | BH23-04 0 | Total/NA | Solid | 8015B NM | 63535 |
| 890-5338-4 | BH23-04 2 | Total/NA | Solid | 8015B NM | 63535 |
| 890-5338-5 | BH23-05 2 | Total/NA | Solid | 8015B NM | 63535 |
| 890-5338-6 | BH23-05 0 | Total/NA | Solid | 8015B NM | 63535 |
| MB 880-63535/1-A | Method Blank | Total/NA | Solid | 8015B NM | 63535 |
| LCS 880-63535/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 63535 |
| LCSD 880-63535/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 63535 |
| 890-5338-1 MS | BH23-03 0 | Total/NA | Solid | 8015B NM | 63535 |
| 890-5338-1 MSD | BH23-03 0 | Total/NA | Solid | 8015B NM | 63535 |

Analysis Batch: 63743

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5338-1 | BH23-03 0 | Total/NA | Solid | 8015 NM | 11 |
| 890-5338-2 | BH23-03 2 | Total/NA | Solid | 8015 NM | 12 |
| 890-5338-3 | BH23-04 0 | Total/NA | Solid | 8015 NM | 13 |
| 890-5338-4 | BH23-04 2 | Total/NA | Solid | 8015 NM | 14 |
| 890-5338-5 | BH23-05 2 | Total/NA | Solid | 8015 NM | |
| 890-5338-6 | BH23-05 0 | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 63489**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-5338-1 | BH23-03 0 | Soluble | Solid | DI Leach | |
| 890-5338-2 | BH23-03 2 | Soluble | Solid | DI Leach | |
| 890-5338-3 | BH23-04 0 | Soluble | Solid | DI Leach | |
| 890-5338-4 | BH23-04 2 | Soluble | Solid | DI Leach | |
| 890-5338-5 | BH23-05 2 | Soluble | Solid | DI Leach | |
| 890-5338-6 | BH23-05 0 | Soluble | Solid | DI Leach | |
| MB 880-63489/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-63489/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-63489/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-33744-A-1-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-33744-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 63547

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5338-1 | BH23-03 0 | Soluble | Solid | 300.0 | 63489 |
| 890-5338-2 | BH23-03 2 | Soluble | Solid | 300.0 | 63489 |
| 890-5338-3 | BH23-04 0 | Soluble | Solid | 300.0 | 63489 |
| 890-5338-4 | BH23-04 2 | Soluble | Solid | 300.0 | 63489 |
| 890-5338-5 | BH23-05 2 | Soluble | Solid | 300.0 | 63489 |
| 890-5338-6 | BH23-05 0 | Soluble | Solid | 300.0 | 63489 |
| MB 880-63489/1-A | Method Blank | Soluble | Solid | 300.0 | 63489 |
| LCS 880-63489/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 63489 |
| LCSD 880-63489/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 63489 |
| 880-33744-A-1-B MS | Matrix Spike | Soluble | Solid | 300.0 | 63489 |
| 880-33744-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 63489 |

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Lab Chronicle

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5338-1
 SDG: 23E-05219

Client Sample ID: BH23-03 0**Lab Sample ID: 890-5338-1**

Matrix: Solid

Date Collected: 09/25/23 09:30
 Date Received: 09/25/23 16:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 63670 | 09/29/23 16:40 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63715 | 10/02/23 17:44 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63875 | 10/02/23 17:44 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63743 | 09/29/23 10:55 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 63535 | 09/28/23 13:45 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63577 | 09/29/23 10:55 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 63489 | 09/28/23 12:57 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63547 | 09/28/23 21:18 | CH | EET MID |

Client Sample ID: BH23-03 2**Lab Sample ID: 890-5338-2**

Matrix: Solid

Date Collected: 09/25/23 09:35
 Date Received: 09/25/23 16:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 63670 | 09/29/23 16:40 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63715 | 10/02/23 18:04 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63875 | 10/02/23 18:04 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63743 | 09/29/23 12:02 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 63535 | 09/28/23 13:45 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63577 | 09/29/23 12:02 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 63489 | 09/28/23 12:57 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63547 | 09/28/23 21:38 | CH | EET MID |

Client Sample ID: BH23-04 0**Lab Sample ID: 890-5338-3**

Matrix: Solid

Date Collected: 09/25/23 09:40
 Date Received: 09/25/23 16:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 63670 | 09/29/23 16:40 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63715 | 10/02/23 18:25 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63875 | 10/02/23 18:25 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63743 | 09/29/23 12:24 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 63535 | 09/28/23 13:45 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63577 | 09/29/23 12:24 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 63489 | 09/28/23 12:57 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63547 | 09/28/23 21:44 | CH | EET MID |

Client Sample ID: BH23-04 2**Lab Sample ID: 890-5338-4**

Matrix: Solid

Date Collected: 09/25/23 09:45
 Date Received: 09/25/23 16:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 63670 | 09/29/23 16:40 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63715 | 10/02/23 18:45 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63875 | 10/02/23 18:45 | SM | EET MID |

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Lab Chronicle

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5338-1
 SDG: 23E-05219

Client Sample ID: BH23-04 2**Lab Sample ID: 890-5338-4**

Matrix: Solid

Date Collected: 09/25/23 09:45
 Date Received: 09/25/23 16:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 63743 | 09/29/23 12:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.07 g | 10 mL | 63535 | 09/28/23 13:45 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63577 | 09/29/23 12:46 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 63489 | 09/28/23 12:57 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63547 | 09/28/23 21:51 | CH | EET MID |

Client Sample ID: BH23-05 2**Lab Sample ID: 890-5338-5**

Matrix: Solid

Date Collected: 09/25/23 09:50
 Date Received: 09/25/23 16:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 63670 | 09/29/23 16:40 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63715 | 10/02/23 19:05 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63875 | 10/02/23 19:05 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63743 | 09/29/23 13:09 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 63535 | 09/28/23 13:45 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63577 | 09/29/23 13:09 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 63489 | 09/28/23 12:57 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63547 | 09/28/23 21:58 | CH | EET MID |

Client Sample ID: BH23-05 0**Lab Sample ID: 890-5338-6**

Matrix: Solid

Date Collected: 09/25/23 09:55
 Date Received: 09/25/23 16:18

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 63670 | 09/29/23 16:40 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63715 | 10/02/23 19:26 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63875 | 10/02/23 19:26 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63743 | 09/29/23 13:31 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 63535 | 09/28/23 13:45 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63577 | 09/29/23 13:31 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 63489 | 09/28/23 12:57 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63547 | 09/28/23 22:04 | CH | EET MID |

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Vertex

Job ID: 890-5338-1

Project/Site: Mis Amigos CTB

SDG: 23E-05219

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-23-26 | 06-30-24 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

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Eurofins Carlsbad

Method Summary

Client: Vertex
 Project/Site: Mis Amigos CTB

Job ID: 890-5338-1
 SDG: 23E-05219

| Method | Method Description | Protocol | Laboratory |
|---------------|------------------------------------|-----------------|-------------------|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 300.0 | Anions, Ion Chromatography | EPA | EET MID |
| 5035 | Closed System Purge and Trap | SW846 | EET MID |
| 8015NM Prep | Microextraction | SW846 | EET MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | EET MID |

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Vertex

Job ID: 890-5338-1

Project/Site: Mis Amigos CTB

SDG: 23E-05219

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 890-5338-1 | BH23-03 0 | Solid | 09/25/23 09:30 | 09/25/23 16:18 |
| 890-5338-2 | BH23-03 2 | Solid | 09/25/23 09:35 | 09/25/23 16:18 |
| 890-5338-3 | BH23-04 0 | Solid | 09/25/23 09:40 | 09/25/23 16:18 |
| 890-5338-4 | BH23-04 2 | Solid | 09/25/23 09:45 | 09/25/23 16:18 |
| 890-5338-5 | BH23-05 2 | Solid | 09/25/23 09:50 | 09/25/23 16:18 |
| 890-5338-6 | BH23-05 0 | Solid | 09/25/23 09:55 | 09/25/23 16:18 |

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Eurofins Carlsbad

Chain of Custody Record



eurofins

Environment Testing

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Note: Since laboratories are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other institutions will be provided. Any changes in accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification

| Unconfirmed | Deliverable Requested | Primary Deliverable Rank | 2 |
|-------------|-----------------------|--------------------------|---|
| | | | |

Empty Kit Relinquished by Date

Belinniuščad hv' Dalsčišča

תעודת בוגר מינהל אוניברסיטאי

Reinstituted by _____ Date/Time: _____

Custody Seals Intact: Custody Seal No

△ Yes △ No

Login Sample Receipt Checklist

Client: Vertex

Job Number: 890-5338-1

SDG Number: 23E-05219

Login Number: 5338**List Source:** Eurofins Carlsbad**List Number:** 1**Creator:** Lopez, Abraham

| Question | Answer | Comment |
|--|--------|-------------------------------------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | N/A | Refer to Job Narrative for details. |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

Login Sample Receipt Checklist

Client: Vertex

Job Number: 890-5338-1

SDG Number: 23E-05219

Login Number: 5338**List Source:** Eurofins Midland**List Number:** 2**List Creation:** 09/27/23 10:53 AM**Creator:** Kramer, Jessica

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 10/2/2023 2:14:05 PM

JOB DESCRIPTION

MIS AMIGOS CTB
SDG NUMBER 23E 05219

JOB NUMBER

890-5357-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
10/2/2023 2:14:05 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Table of Contents

| | | |
|------------------------------|----|----|
| Cover Page | 1 | 3 |
| Table of Contents | 3 | 4 |
| Definitions/Glossary | 4 | 5 |
| Case Narrative | 5 | 6 |
| Client Sample Results | 6 | 6 |
| Surrogate Summary | 14 | 7 |
| QC Sample Results | 15 | 8 |
| QC Association Summary | 19 | 8 |
| Lab Chronicle | 22 | 9 |
| Certification Summary | 26 | 10 |
| Method Summary | 27 | 11 |
| Sample Summary | 28 | 11 |
| Chain of Custody | 29 | 12 |
| Receipt Checklists | 30 | 13 |
| | | 14 |

Definitions/Glossary

Client: Vertex

Job ID: 890-5357-1

Project/Site: MIS AMIGOS CTB

SDG: 23E 05219

Qualifiers**GC VOA**

| Qualifier | Qualifier Description |
|-----------|--|
| S1- | Surrogate recovery exceeds control limits, low biased. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Job ID: 890-5357-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-5357-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/27/2023 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH23-06 (890-5357-1), BH23-06 (890-5357-2), BH23-06 (890-5357-3), BH23-07 (890-5357-4), BH23-07 (890-5357-5), BH23-08 (890-5357-6), BH23-08 (890-5357-7), BH23-09 (890-5357-8), BH23-09 (890-5357-9) and BH23-09 (890-5357-10).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH23-06 (890-5357-1), BH23-06 (890-5357-2) and (LCSD 880-63531/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-63478 recovered above the upper control limit for Ethylbenzene and o-Xylene. The samples associated with this CCV was ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH23-08 (890-5357-6) and BH23-09 (890-5357-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-63658 and analytical batch 880-63688 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-63690/45). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Client Sample ID: BH23-06
 Date Collected: 09/26/23 09:30
 Date Received: 09/27/23 09:40
 Sample Depth: 0'

Lab Sample ID: 890-5357-1
 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|----------|-----------------|---|-----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:23 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:23 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:23 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:23 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:23 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:23 | 1 |
| Surrogate | | | | Prepared | | Analyzed | Dil Fac | |
| 4-Bromofluorobenzene (Surr) | 88 | | 70 - 130 | | | 09/28/23 13:02 | 09/28/23 22:23 | 1 |
| 1,4-Difluorobenzene (Surr) | 68 | S1- | 70 - 130 | | | 09/28/23 13:02 | 09/28/23 22:23 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | | 09/28/23 22:23 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 09/30/23 20:02 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|----------|-----------------|---|-----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 09/29/23 14:33 | 09/30/23 20:02 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 09/29/23 14:33 | 09/30/23 20:02 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 09/29/23 14:33 | 09/30/23 20:02 | 1 |
| Surrogate | | | | Prepared | | Analyzed | Dil Fac | |
| 1-Chlorooctane | 127 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 20:02 | 1 |
| <i>o</i> -Terphenyl | 109 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 20:02 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 105 | | 4.95 | mg/Kg | | | 09/28/23 19:18 | 1 |

Client Sample ID: BH23-06

Lab Sample ID: 890-5357-2
 Matrix: Solid

Date Collected: 09/26/23 09:35
 Date Received: 09/27/23 09:40
 Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|----------|-----------------|---|-----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:44 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:44 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:44 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:44 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:44 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:44 | 1 |
| Surrogate | | | | Prepared | | Analyzed | Dil Fac | |
| 4-Bromofluorobenzene (Surr) | 80 | | 70 - 130 | | | 09/28/23 13:02 | 09/28/23 22:44 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Vertex
Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
SDG: 23E 05219

Client Sample ID: BH23-06
Date Collected: 09/26/23 09:35
Date Received: 09/27/23 09:40
Sample Depth: 2'

Lab Sample ID: 890-5357-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 62 | S1- | 70 - 130 | 09/28/23 13:02 | 09/28/23 22:44 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 09/28/23 22:44 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.3 | U | 50.3 | mg/Kg | | | 09/30/23 21:06 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.3 | U | 50.3 | mg/Kg | | 09/29/23 14:33 | 09/30/23 21:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.3 | U | 50.3 | mg/Kg | | 09/29/23 14:33 | 09/30/23 21:06 | 1 |
| Oil Range Organics (Over C28-C36) | <50.3 | U | 50.3 | mg/Kg | | 09/29/23 14:33 | 09/30/23 21:06 | 1 |

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 110 | | 70 - 130 | 09/29/23 14:33 | 09/30/23 21:06 | 1 |
| o-Terphenyl | 91 | | 70 - 130 | 09/29/23 14:33 | 09/30/23 21:06 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1110 | | 4.99 | mg/Kg | | | 09/28/23 19:38 | 1 |

Client Sample ID: BH23-06

Lab Sample ID: 890-5357-3

Matrix: Solid

Date Collected: 09/26/23 09:40

Date Received: 09/27/23 09:40

Sample Depth: 0'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:04 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:04 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:04 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:04 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:04 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:04 | 1 |

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 | 09/28/23 13:02 | 09/28/23 23:04 | 1 |
| 1,4-Difluorobenzene (Surr) | 84 | | 70 - 130 | 09/28/23 13:02 | 09/28/23 23:04 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 09/28/23 23:04 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 94.7 | | 50.5 | mg/Kg | | | 09/30/23 21:28 | 1 |

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Client Sample Results

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Client Sample ID: BH23-06
 Date Collected: 09/26/23 09:40
 Date Received: 09/27/23 09:40
 Sample Depth: 0'

Lab Sample ID: 890-5357-3
 Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5 | U | 50.5 | mg/Kg | | 09/29/23 14:33 | 09/30/23 21:28 | 1 |
| Diesel Range Organics (Over C10-C28) | 94.7 | | 50.5 | mg/Kg | | 09/29/23 14:33 | 09/30/23 21:28 | 1 |
| OII Range Organics (Over C28-C36) | <50.5 | U | 50.5 | mg/Kg | | 09/29/23 14:33 | 09/30/23 21:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 112 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 21:28 | 1 |
| o-Terphenyl | 95 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 21:28 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 11600 | | 99.6 | mg/Kg | | | 09/28/23 19:44 | 20 |

Client Sample ID: BH23-07
 Date Collected: 09/26/23 09:45
 Date Received: 09/27/23 09:40
 Sample Depth: 2'

Lab Sample ID: 890-5357-4
 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:24 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:24 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:24 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:24 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:24 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | | | 09/28/23 13:02 | 09/28/23 23:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 82 | | 70 - 130 | | | 09/28/23 13:02 | 09/28/23 23:24 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 09/28/23 23:24 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5 | U | 50.5 | mg/Kg | | | 09/30/23 21:49 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------------|-----------|-------------|--------------|---|-----------------------|-----------------------|----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5 | U | 50.5 | mg/Kg | | 09/29/23 14:33 | 09/30/23 21:49 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.5 | U | 50.5 | mg/Kg | | 09/29/23 14:33 | 09/30/23 21:49 | 1 |
| OII Range Organics (Over C28-C36) | <50.5 | U | 50.5 | mg/Kg | | 09/29/23 14:33 | 09/30/23 21:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 111 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 21:49 | 1 |
| o-Terphenyl | 93 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 21:49 | 1 |

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Client Sample Results

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Client Sample ID: BH23-07
 Date Collected: 09/26/23 09:45
 Date Received: 09/27/23 09:40
 Sample Depth: 2'

Lab Sample ID: 890-5357-4
 Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 211 | | 5.00 | mg/Kg | | | 09/28/23 19:51 | 1 |

Client Sample ID: BH23-07
 Date Collected: 09/26/23 09:50
 Date Received: 09/27/23 09:40
 Sample Depth: 0'

Lab Sample ID: 890-5357-5
 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:45 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:45 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:45 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:45 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:45 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 09/28/23 13:02 | 09/28/23 23:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 76 | | 70 - 130 | | | 09/28/23 13:02 | 09/28/23 23:45 | 1 |
| 1,4-Difluorobenzene (Surr) | 81 | | 70 - 130 | | | 09/28/23 13:02 | 09/28/23 23:45 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 09/28/23 23:45 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 09/30/23 22:10 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 09/29/23 14:33 | 09/30/23 22:10 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 09/29/23 14:33 | 09/30/23 22:10 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 09/29/23 14:33 | 09/30/23 22:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 101 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 22:10 | 1 |
| <i>o</i> -Terphenyl | 84 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 22:10 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 6280 | | 49.7 | mg/Kg | | | 09/28/23 19:58 | 10 |

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Client Sample Results

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Client Sample ID: BH23-08
 Date Collected: 09/26/23 09:55
 Date Received: 09/27/23 09:40
 Sample Depth: 2'

Lab Sample ID: 890-5357-6
 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 09/28/23 13:02 | 09/29/23 00:05 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 09/28/23 13:02 | 09/29/23 00:05 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 09/28/23 13:02 | 09/29/23 00:05 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | 09/28/23 13:02 | 09/29/23 00:05 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 09/28/23 13:02 | 09/29/23 00:05 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | 09/28/23 13:02 | 09/29/23 00:05 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 55 | S1- | 70 - 130 | | 09/28/23 13:02 | 09/29/23 00:05 | 1 |
| 1,4-Difluorobenzene (Surr) | | 94 | | 70 - 130 | | 09/28/23 13:02 | 09/29/23 00:05 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 09/29/23 00:05 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.6 | U | 49.6 | mg/Kg | | | 09/30/23 22:31 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|----------------|----------------|----------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6 | U | 49.6 | mg/Kg | 09/29/23 14:33 | 09/30/23 22:31 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.6 | U | 49.6 | mg/Kg | 09/29/23 14:33 | 09/30/23 22:31 | | 1 |
| Oil Range Organics (Over C28-C36) | <49.6 | U | 49.6 | mg/Kg | 09/29/23 14:33 | 09/30/23 22:31 | | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | | | | | | | 1 |
| o-Terphenyl | | | | | | | | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1830 | | 24.8 | mg/Kg | | | 09/28/23 20:18 | 5 |

Client Sample ID: BH23-08

Lab Sample ID: 890-5357-7
 Matrix: Solid

Date Collected: 09/26/23 10:00
 Date Received: 09/27/23 09:40
 Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | 09/28/23 13:02 | 09/29/23 00:26 | | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | 09/28/23 13:02 | 09/29/23 00:26 | | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | 09/28/23 13:02 | 09/29/23 00:26 | | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | 09/28/23 13:02 | 09/29/23 00:26 | | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | 09/28/23 13:02 | 09/29/23 00:26 | | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | 09/28/23 13:02 | 09/29/23 00:26 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 80 | | 70 - 130 | | 09/28/23 13:02 | 09/29/23 00:26 | 1 |

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Client Sample Results

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Client Sample ID: BH23-08
 Date Collected: 09/26/23 10:00
 Date Received: 09/27/23 09:40
 Sample Depth: 4'

Lab Sample ID: 890-5357-7
 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 86 | | 70 - 130 | 09/28/23 13:02 | 09/29/23 00:26 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | | 09/29/23 00:26 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.6 | U | 49.6 | mg/Kg | | | 09/30/23 22:52 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6 | U | 49.6 | mg/Kg | | 09/29/23 14:33 | 09/30/23 22:52 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.6 | U | 49.6 | mg/Kg | | 09/29/23 14:33 | 09/30/23 22:52 | 1 |
| Oil Range Organics (Over C28-C36) | <49.6 | U | 49.6 | mg/Kg | | 09/29/23 14:33 | 09/30/23 22:52 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 107 | | 70 - 130 | 09/29/23 14:33 | 09/30/23 22:52 | 1 |
| o-Terphenyl | 90 | | 70 - 130 | 09/29/23 14:33 | 09/30/23 22:52 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 233 | | 5.05 | mg/Kg | | | 09/28/23 20:24 | 1 |

Client Sample ID: BH23-09**Lab Sample ID: 890-5357-8**

Matrix: Solid

Date Collected: 09/26/23 10:05
 Date Received: 09/27/23 09:40
 Sample Depth: 0'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 09/28/23 13:02 | 09/29/23 00:46 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 09/28/23 13:02 | 09/29/23 00:46 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 09/28/23 13:02 | 09/29/23 00:46 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 09/28/23 13:02 | 09/29/23 00:46 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 09/28/23 13:02 | 09/29/23 00:46 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 09/28/23 13:02 | 09/29/23 00:46 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 81 | | 70 - 130 | 09/28/23 13:02 | 09/29/23 00:46 | 1 |
| 1,4-Difluorobenzene (Surr) | 86 | | 70 - 130 | 09/28/23 13:02 | 09/29/23 00:46 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 09/29/23 00:46 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 297 | | 50.2 | mg/Kg | | | 09/30/23 23:13 | 1 |

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Client Sample Results

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Client Sample ID: BH23-09
 Date Collected: 09/26/23 10:05
 Date Received: 09/27/23 09:40
 Sample Depth: 0'

Lab Sample ID: 890-5357-8
 Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2 | U | 50.2 | mg/Kg | | 09/29/23 14:33 | 09/30/23 23:13 | 1 |
| Diesel Range Organics (Over C10-C28) | 297 | | 50.2 | mg/Kg | | 09/29/23 14:33 | 09/30/23 23:13 | 1 |
| OII Range Organics (Over C28-C36) | <50.2 | U | 50.2 | mg/Kg | | 09/29/23 14:33 | 09/30/23 23:13 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 108 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 23:13 | 1 |
| o-Terphenyl | 91 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 23:13 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 821 | | 4.98 | mg/Kg | | | 09/28/23 20:31 | 1 |

Client Sample ID: BH23-09
 Date Collected: 09/26/23 10:10
 Date Received: 09/27/23 09:40
 Sample Depth: 2'

Lab Sample ID: 890-5357-9
 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 09/28/23 13:02 | 09/29/23 01:06 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 09/28/23 13:02 | 09/29/23 01:06 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 09/28/23 13:02 | 09/29/23 01:06 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 09/28/23 13:02 | 09/29/23 01:06 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 09/28/23 13:02 | 09/29/23 01:06 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 09/28/23 13:02 | 09/29/23 01:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 82 | | 70 - 130 | | | 09/28/23 13:02 | 09/29/23 01:06 | 1 |
| 1,4-Difluorobenzene (Surr) | 86 | | 70 - 130 | | | 09/28/23 13:02 | 09/29/23 01:06 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 09/29/23 01:06 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.4 | U | 50.4 | mg/Kg | | | 09/30/23 18:58 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------------|------------------|---------------|--------------|---|-----------------------|-----------------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4 | U | 50.4 | mg/Kg | | 09/29/23 14:33 | 09/30/23 18:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.4 | U | 50.4 | mg/Kg | | 09/29/23 14:33 | 09/30/23 18:58 | 1 |
| OII Range Organics (Over C28-C36) | <50.4 | U | 50.4 | mg/Kg | | 09/29/23 14:33 | 09/30/23 18:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 111 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 18:58 | 1 |
| o-Terphenyl | 114 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 18:58 | 1 |

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Client Sample Results

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Client Sample ID: BH23-09
 Date Collected: 09/26/23 10:10
 Date Received: 09/27/23 09:40
 Sample Depth: 2'

Lab Sample ID: 890-5357-9
 Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 632 | | 5.05 | mg/Kg | | | 09/28/23 20:38 | 1 |

Client Sample ID: BH23-09
 Date Collected: 09/26/23 10:15
 Date Received: 09/27/23 09:40
 Sample Depth: 4'

Lab Sample ID: 890-5357-10
 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/29/23 01:27 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/29/23 01:27 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/29/23 01:27 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 09/28/23 13:02 | 09/29/23 01:27 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/29/23 01:27 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 09/28/23 13:02 | 09/29/23 01:27 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | | | 09/28/23 13:02 | 09/29/23 01:27 | 1 |
| 1,4-Difluorobenzene (Surr) | 57 | S1- | 70 - 130 | | | 09/28/23 13:02 | 09/29/23 01:27 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 09/29/23 01:27 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5 | U | 50.5 | mg/Kg | | | 09/30/23 19:19 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5 | U | 50.5 | mg/Kg | | 09/29/23 14:33 | 09/30/23 19:19 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.5 | U | 50.5 | mg/Kg | | 09/29/23 14:33 | 09/30/23 19:19 | 1 |
| OII Range Organics (Over C28-C36) | <50.5 | U | 50.5 | mg/Kg | | 09/29/23 14:33 | 09/30/23 19:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 108 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 19:19 | 1 |
| <i>o</i> -Terphenyl | 110 | | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 19:19 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 200 | | 4.99 | mg/Kg | | | 09/28/23 20:44 | 1 |

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Surrogate Summary

Client: Vertex

Job ID: 890-5357-1

Project/Site: MIS AMIGOS CTB

SDG: 23E 05219

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-5357-1 | BH23-06 | 88 | 68 S1- |
| 890-5357-1 MS | BH23-06 | 126 | 109 |
| 890-5357-1 MSD | BH23-06 | 128 | 103 |
| 890-5357-2 | BH23-06 | 80 | 62 S1- |
| 890-5357-3 | BH23-06 | 112 | 84 |
| 890-5357-4 | BH23-07 | 89 | 82 |
| 890-5357-5 | BH23-07 | 76 | 81 |
| 890-5357-6 | BH23-08 | 55 S1- | 94 |
| 890-5357-7 | BH23-08 | 80 | 86 |
| 890-5357-8 | BH23-09 | 81 | 86 |
| 890-5357-9 | BH23-09 | 82 | 86 |
| 890-5357-10 | BH23-09 | 89 | 57 S1- |
| LCS 880-63531/1-A | Lab Control Sample | 122 | 92 |
| LCSD 880-63531/2-A | Lab Control Sample Dup | 135 S1+ | 125 |
| MB 880-63478/8 | Method Blank | 70 | 93 |
| MB 880-63531/5-A | Method Blank | 81 | 80 |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-5357-1 | BH23-06 | 127 | 109 |
| 890-5357-1 MS | BH23-06 | 106 | 79 |
| 890-5357-1 MSD | BH23-06 | 106 | 80 |
| 890-5357-2 | BH23-06 | 110 | 91 |
| 890-5357-3 | BH23-06 | 112 | 95 |
| 890-5357-4 | BH23-07 | 111 | 93 |
| 890-5357-5 | BH23-07 | 101 | 84 |
| 890-5357-6 | BH23-08 | 108 | 91 |
| 890-5357-7 | BH23-08 | 107 | 90 |
| 890-5357-8 | BH23-09 | 108 | 91 |
| 890-5357-9 | BH23-09 | 111 | 114 |
| 890-5357-10 | BH23-09 | 108 | 110 |
| LCS 880-63658/2-A | Lab Control Sample | 103 | 114 |
| LCSD 880-63658/3-A | Lab Control Sample Dup | 106 | 112 |
| MB 880-63658/1-A | Method Blank | 154 S1+ | 142 S1+ |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63478/8

Matrix: Solid

Analysis Batch: 63478

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | | 09/28/23 11:49 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | | 09/28/23 11:49 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | | 09/28/23 11:49 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | | 09/28/23 11:49 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | | 09/28/23 11:49 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | | 09/28/23 11:49 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 70 | | 70 - 130 | | 09/28/23 11:49 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | | 09/28/23 11:49 | 1 |

Lab Sample ID: MB 880-63531/5-A

Matrix: Solid

Analysis Batch: 63478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63531

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:02 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:02 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:02 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:02 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:02 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 09/28/23 13:02 | 09/28/23 22:02 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac | |
|-----------------------------|-----------|-----------|----------|----------|----------------|----------------|---|
| | %Recovery | Qualifier | | | | | |
| 4-Bromofluorobenzene (Surr) | 81 | | 70 - 130 | | 09/28/23 13:02 | 09/28/23 22:02 | 1 |
| 1,4-Difluorobenzene (Surr) | 80 | | 70 - 130 | | 09/28/23 13:02 | 09/28/23 22:02 | 1 |

Lab Sample ID: LCS 880-63531/1-A

Matrix: Solid

Analysis Batch: 63478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63531

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | Limits |
|---------------------|-------|---------|-----------|-------|---|------|----------|
| | Added | Result | Qualifier | | | | |
| Benzene | 0.100 | 0.09492 | | mg/Kg | | 95 | 70 - 130 |
| Toluene | 0.100 | 0.1103 | | mg/Kg | | 110 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1256 | | mg/Kg | | 126 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2592 | | mg/Kg | | 130 | 70 - 130 |
| o-Xylene | 0.100 | 0.1271 | | mg/Kg | | 127 | 70 - 130 |

| Surrogate | LCS | LCS | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 | | | |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | | | |

Lab Sample ID: LCSD 880-63531/2-A

Matrix: Solid

Analysis Batch: 63478

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63531

| Analyte | Spike | LCSD | LCSD | Unit | D | %Rec | Limits | RPD |
|---------|-------|---------|-----------|-------|---|------|----------|-----|
| | Added | Result | Qualifier | | | | | |
| Benzene | 0.100 | 0.09682 | | mg/Kg | | 97 | 70 - 130 | 2 |

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QC Sample Results

Client: Vertex
Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
SDG: 23E 05219

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-63531/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 63478

| Analyte | | Spike | LCSD | LCSD | Unit | D | %Rec | Limits | RPD | RPD | Limit |
|---------------------|--|-------|--------|-----------|-------|---|------|----------|-----|-----|-------|
| | | Added | Result | Qualifier | | | | | | | |
| Toluene | | 0.100 | 0.1077 | | mg/Kg | | 108 | 70 - 130 | 2 | | 35 |
| Ethylbenzene | | 0.100 | 0.1222 | | mg/Kg | | 122 | 70 - 130 | 3 | | 35 |
| m-Xylene & p-Xylene | | 0.200 | 0.2556 | | mg/Kg | | 128 | 70 - 130 | 1 | | 35 |
| o-Xylene | | 0.100 | 0.1259 | | mg/Kg | | 126 | 70 - 130 | 1 | | 35 |

| Surrogate | LCSD | LCSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 135 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 125 | | 70 - 130 |

Lab Sample ID: 890-5357-1 MS

Matrix: Solid

Analysis Batch: 63478

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | Limits | RPD | RPD |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00198 | U | 0.0996 | 0.08885 | | mg/Kg | | 89 | 70 - 130 | | |
| Toluene | <0.00198 | U | 0.0996 | 0.1054 | | mg/Kg | | 106 | 70 - 130 | | |
| Ethylbenzene | <0.00198 | U | 0.0996 | 0.1184 | | mg/Kg | | 119 | 70 - 130 | | |
| m-Xylene & p-Xylene | <0.00396 | U | 0.199 | 0.2387 | | mg/Kg | | 120 | 70 - 130 | | |
| o-Xylene | <0.00198 | U | 0.0996 | 0.1166 | | mg/Kg | | 117 | 70 - 130 | | |

| Surrogate | MS | MS | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 126 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 |

Lab Sample ID: 890-5357-1 MSD

Matrix: Solid

Analysis Batch: 63478

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | Limits | RPD | RPD |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|-----|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00198 | U | 0.100 | 0.07257 | | mg/Kg | | 72 | 70 - 130 | 20 | 35 |
| Toluene | <0.00198 | U | 0.100 | 0.09463 | | mg/Kg | | 94 | 70 - 130 | 11 | 35 |
| Ethylbenzene | <0.00198 | U | 0.100 | 0.1104 | | mg/Kg | | 110 | 70 - 130 | 7 | 35 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.200 | 0.2199 | | mg/Kg | | 110 | 70 - 130 | 8 | 35 |
| o-Xylene | <0.00198 | U | 0.100 | 0.1092 | | mg/Kg | | 109 | 70 - 130 | 7 | 35 |

| Surrogate | MSD | MSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 128 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-63658/1-A

Matrix: Solid

Analysis Batch: 63688

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 09/29/23 14:33 | 09/30/23 18:58 | 1 |

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63658

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QC Sample Results

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: MB 880-63658/1-A****Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 63688****Prep Batch: 63658**

| Analyte | MB | | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|-----------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 09/29/23 14:33 | 09/30/23 18:58 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 09/29/23 14:33 | 09/30/23 18:58 | 1 |
| Surrogate | MB | | MB | | | | | |
| | %Recovery | Qualifier | Limits | | | | | |
| 1-Chlorooctane | 154 | S1+ | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 18:58 | 1 |
| <i>o-Terphenyl</i> | 142 | S1+ | 70 - 130 | | | 09/29/23 14:33 | 09/30/23 18:58 | 1 |

Lab Sample ID: LCS 880-63658/2-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 63688****Prep Batch: 63658**

| Analyte | Spike | | Unit | D | %Rec | |
|--------------------------------------|------------|-----------|------------|---|------|----------|
| | Added | Result | | | %Rec | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 901.7 | mg/Kg | | 90 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 959.3 | mg/Kg | | 96 | 70 - 130 |
| Surrogate | LCS | | LCS | | | |
| | %Recovery | Qualifier | Limits | | | |
| 1-Chlorooctane | 103 | | 70 - 130 | | | |
| <i>o-Terphenyl</i> | 114 | | 70 - 130 | | | |

Lab Sample ID: LCSD 880-63658/3-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 63688****Prep Batch: 63658**

| Analyte | Spike | | Unit | D | %Rec | | RPD |
|--------------------------------------|-------------|-----------|-------------|---|------|----------|-----|
| | Added | Result | | | %Rec | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 900.9 | mg/Kg | | 90 | 70 - 130 | 0 |
| Diesel Range Organics (Over C10-C28) | 1000 | 967.0 | mg/Kg | | 97 | 70 - 130 | 1 |
| Surrogate | LCSD | | LCSD | | | | |
| | %Recovery | Qualifier | Limits | | | | |
| 1-Chlorooctane | 106 | | 70 - 130 | | | | |
| <i>o-Terphenyl</i> | 112 | | 70 - 130 | | | | |

Lab Sample ID: 890-5357-1 MS**Client Sample ID: BH23-06****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 63688****Prep Batch: 63658**

| Analyte | Sample | | Spike | MS | MS | Unit | D | %Rec | |
|--------------------------------------|-----------|-----------|-----------|-------|----|-------|---|------|----------|
| | Result | Qualifier | | | | | | %Rec | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 993 | 843.7 | | mg/Kg | | 82 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 993 | 1143 | | mg/Kg | | 113 | 70 - 130 |
| Surrogate | MS | | MS | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 106 | | 70 - 130 | | | | | | |
| <i>o-Terphenyl</i> | 79 | | 70 - 130 | | | | | | |

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QC Sample Results

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-5357-1 MSD

Matrix: Solid

Analysis Batch: 63688

Client Sample ID: BH23-06

Prep Type: Total/NA

Prep Batch: 63658

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | RPD Limit | |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|--------|---|------|----------|-----------|----|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 993 | 854.6 | | mg/Kg | | 83 | 1 | 20 | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 993 | 1169 | | mg/Kg | | 116 | 70 - 130 | 2 | 20 |
| Surrogate | %Recovery | Qualifer | | MSD Result | MSD Qualifier | Limits | | | | | |
| 1-Chlorooctane | 106 | | | 70 - 130 | | | | | | | |
| <i>o</i> -Terphenyl | 80 | | | 70 - 130 | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-63489/1-A

Matrix: Solid

Analysis Batch: 63547

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|--|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 09/28/23 18:58 | 1 |

Lab Sample ID: LCS 880-63489/2-A

Matrix: Solid

Analysis Batch: 63547

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|--|-------------|------------|---------------|-------|---|------|----------|
| Chloride | | 250 | 247.2 | | mg/Kg | | 99 | 90 - 110 |

Lab Sample ID: LCSD 880-63489/3-A

Matrix: Solid

Analysis Batch: 63547

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|----------|--|-------------|-------------|----------------|-------|---|------|----------|-----|-----------|
| Chloride | | 250 | 247.7 | | mg/Kg | | 99 | 90 - 110 | 0 | 20 |

Lab Sample ID: 890-5357-1 MS

Matrix: Solid

Analysis Batch: 63547

Client Sample ID: BH23-06

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Chloride | 105 | | 248 | 368.2 | | mg/Kg | | 106 | 90 - 110 |

Lab Sample ID: 890-5357-1 MSD

Matrix: Solid

Analysis Batch: 63547

Client Sample ID: BH23-06

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-----------|
| Chloride | 105 | | 248 | 368.4 | | mg/Kg | | 107 | 90 - 110 | 0 | 20 |

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QC Association Summary

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

GC VOA**Analysis Batch: 63478**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5357-1 | BH23-06 | Total/NA | Solid | 8021B | 63531 |
| 890-5357-2 | BH23-06 | Total/NA | Solid | 8021B | 63531 |
| 890-5357-3 | BH23-06 | Total/NA | Solid | 8021B | 63531 |
| 890-5357-4 | BH23-07 | Total/NA | Solid | 8021B | 63531 |
| 890-5357-5 | BH23-07 | Total/NA | Solid | 8021B | 63531 |
| 890-5357-6 | BH23-08 | Total/NA | Solid | 8021B | 63531 |
| 890-5357-7 | BH23-08 | Total/NA | Solid | 8021B | 63531 |
| 890-5357-8 | BH23-09 | Total/NA | Solid | 8021B | 63531 |
| 890-5357-9 | BH23-09 | Total/NA | Solid | 8021B | 63531 |
| 890-5357-10 | BH23-09 | Total/NA | Solid | 8021B | 63531 |
| MB 880-63478/8 | Method Blank | Total/NA | Solid | 8021B | |
| MB 880-63531/5-A | Method Blank | Total/NA | Solid | 8021B | 63531 |
| LCS 880-63531/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 63531 |
| LCSD 880-63531/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 63531 |
| 890-5357-1 MS | BH23-06 | Total/NA | Solid | 8021B | 63531 |
| 890-5357-1 MSD | BH23-06 | Total/NA | Solid | 8021B | 63531 |

Prep Batch: 63531

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5357-1 | BH23-06 | Total/NA | Solid | 5035 | |
| 890-5357-2 | BH23-06 | Total/NA | Solid | 5035 | |
| 890-5357-3 | BH23-06 | Total/NA | Solid | 5035 | |
| 890-5357-4 | BH23-07 | Total/NA | Solid | 5035 | |
| 890-5357-5 | BH23-07 | Total/NA | Solid | 5035 | |
| 890-5357-6 | BH23-08 | Total/NA | Solid | 5035 | |
| 890-5357-7 | BH23-08 | Total/NA | Solid | 5035 | |
| 890-5357-8 | BH23-09 | Total/NA | Solid | 5035 | |
| 890-5357-9 | BH23-09 | Total/NA | Solid | 5035 | |
| 890-5357-10 | BH23-09 | Total/NA | Solid | 5035 | |
| MB 880-63531/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-63531/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-63531/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-5357-1 MS | BH23-06 | Total/NA | Solid | 5035 | |
| 890-5357-1 MSD | BH23-06 | Total/NA | Solid | 5035 | |

Analysis Batch: 63644

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5357-1 | BH23-06 | Total/NA | Solid | Total BTEX | |
| 890-5357-2 | BH23-06 | Total/NA | Solid | Total BTEX | |
| 890-5357-3 | BH23-06 | Total/NA | Solid | Total BTEX | |
| 890-5357-4 | BH23-07 | Total/NA | Solid | Total BTEX | |
| 890-5357-5 | BH23-07 | Total/NA | Solid | Total BTEX | |
| 890-5357-6 | BH23-08 | Total/NA | Solid | Total BTEX | |
| 890-5357-7 | BH23-08 | Total/NA | Solid | Total BTEX | |
| 890-5357-8 | BH23-09 | Total/NA | Solid | Total BTEX | |
| 890-5357-9 | BH23-09 | Total/NA | Solid | Total BTEX | |
| 890-5357-10 | BH23-09 | Total/NA | Solid | Total BTEX | |

QC Association Summary

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

GC Semi VOA**Prep Batch: 63658**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-5357-1 | BH23-06 | Total/NA | Solid | 8015NM Prep | |
| 890-5357-2 | BH23-06 | Total/NA | Solid | 8015NM Prep | |
| 890-5357-3 | BH23-06 | Total/NA | Solid | 8015NM Prep | |
| 890-5357-4 | BH23-07 | Total/NA | Solid | 8015NM Prep | |
| 890-5357-5 | BH23-07 | Total/NA | Solid | 8015NM Prep | |
| 890-5357-6 | BH23-08 | Total/NA | Solid | 8015NM Prep | |
| 890-5357-7 | BH23-08 | Total/NA | Solid | 8015NM Prep | |
| 890-5357-8 | BH23-09 | Total/NA | Solid | 8015NM Prep | |
| 890-5357-9 | BH23-09 | Total/NA | Solid | 8015NM Prep | |
| 890-5357-10 | BH23-09 | Total/NA | Solid | 8015NM Prep | |
| MB 880-63658/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-63658/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-63658/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-5357-1 MS | BH23-06 | Total/NA | Solid | 8015NM Prep | |
| 890-5357-1 MSD | BH23-06 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 63688

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5357-1 | BH23-06 | Total/NA | Solid | 8015B NM | 63658 |
| 890-5357-2 | BH23-06 | Total/NA | Solid | 8015B NM | 63658 |
| 890-5357-3 | BH23-06 | Total/NA | Solid | 8015B NM | 63658 |
| 890-5357-4 | BH23-07 | Total/NA | Solid | 8015B NM | 63658 |
| 890-5357-5 | BH23-07 | Total/NA | Solid | 8015B NM | 63658 |
| 890-5357-6 | BH23-08 | Total/NA | Solid | 8015B NM | 63658 |
| 890-5357-7 | BH23-08 | Total/NA | Solid | 8015B NM | 63658 |
| 890-5357-8 | BH23-09 | Total/NA | Solid | 8015B NM | 63658 |
| 890-5357-9 | BH23-09 | Total/NA | Solid | 8015B NM | 63658 |
| MB 880-63658/1-A | Method Blank | Total/NA | Solid | 8015B NM | 63658 |
| LCS 880-63658/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 63658 |
| LCSD 880-63658/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 63658 |
| 890-5357-1 MS | BH23-06 | Total/NA | Solid | 8015B NM | 63658 |
| 890-5357-1 MSD | BH23-06 | Total/NA | Solid | 8015B NM | 63658 |

Analysis Batch: 63690

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-5357-9 | BH23-09 | Total/NA | Solid | 8015B NM | 63658 |
| 890-5357-10 | BH23-09 | Total/NA | Solid | 8015B NM | 63658 |

Analysis Batch: 63758

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5357-1 | BH23-06 | Total/NA | Solid | 8015 NM | |
| 890-5357-2 | BH23-06 | Total/NA | Solid | 8015 NM | |
| 890-5357-3 | BH23-06 | Total/NA | Solid | 8015 NM | |
| 890-5357-4 | BH23-07 | Total/NA | Solid | 8015 NM | |
| 890-5357-5 | BH23-07 | Total/NA | Solid | 8015 NM | |
| 890-5357-6 | BH23-08 | Total/NA | Solid | 8015 NM | |
| 890-5357-7 | BH23-08 | Total/NA | Solid | 8015 NM | |
| 890-5357-8 | BH23-09 | Total/NA | Solid | 8015 NM | |
| 890-5357-9 | BH23-09 | Total/NA | Solid | 8015 NM | |
| 890-5357-10 | BH23-09 | Total/NA | Solid | 8015 NM | |

QC Association Summary

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

HPLC/IC**Leach Batch: 63489**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5357-1 | BH23-06 | Soluble | Solid | DI Leach | |
| 890-5357-2 | BH23-06 | Soluble | Solid | DI Leach | |
| 890-5357-3 | BH23-06 | Soluble | Solid | DI Leach | |
| 890-5357-4 | BH23-07 | Soluble | Solid | DI Leach | |
| 890-5357-5 | BH23-07 | Soluble | Solid | DI Leach | |
| 890-5357-6 | BH23-08 | Soluble | Solid | DI Leach | |
| 890-5357-7 | BH23-08 | Soluble | Solid | DI Leach | |
| 890-5357-8 | BH23-09 | Soluble | Solid | DI Leach | |
| 890-5357-9 | BH23-09 | Soluble | Solid | DI Leach | |
| 890-5357-10 | BH23-09 | Soluble | Solid | DI Leach | |
| MB 880-63489/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-63489/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-63489/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-5357-1 MS | BH23-06 | Soluble | Solid | DI Leach | |
| 890-5357-1 MSD | BH23-06 | Soluble | Solid | DI Leach | |

Analysis Batch: 63547

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5357-1 | BH23-06 | Soluble | Solid | 300.0 | 63489 |
| 890-5357-2 | BH23-06 | Soluble | Solid | 300.0 | 63489 |
| 890-5357-3 | BH23-06 | Soluble | Solid | 300.0 | 63489 |
| 890-5357-4 | BH23-07 | Soluble | Solid | 300.0 | 63489 |
| 890-5357-5 | BH23-07 | Soluble | Solid | 300.0 | 63489 |
| 890-5357-6 | BH23-08 | Soluble | Solid | 300.0 | 63489 |
| 890-5357-7 | BH23-08 | Soluble | Solid | 300.0 | 63489 |
| 890-5357-8 | BH23-09 | Soluble | Solid | 300.0 | 63489 |
| 890-5357-9 | BH23-09 | Soluble | Solid | 300.0 | 63489 |
| 890-5357-10 | BH23-09 | Soluble | Solid | 300.0 | 63489 |
| MB 880-63489/1-A | Method Blank | Soluble | Solid | 300.0 | 63489 |
| LCS 880-63489/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 63489 |
| LCSD 880-63489/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 63489 |
| 890-5357-1 MS | BH23-06 | Soluble | Solid | 300.0 | 63489 |
| 890-5357-1 MSD | BH23-06 | Soluble | Solid | 300.0 | 63489 |

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Lab Chronicle

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Client Sample ID: BH23-06
 Date Collected: 09/26/23 09:30
 Date Received: 09/27/23 09:40

Lab Sample ID: 890-5357-1
 Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 63531 | 09/28/23 13:02 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63478 | 09/28/23 22:23 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63644 | 09/28/23 22:23 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63758 | 09/30/23 20:02 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 63658 | 09/29/23 14:33 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63688 | 09/30/23 20:02 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 63489 | 09/28/23 10:22 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63547 | 09/28/23 19:18 | CH | EET MID |

Client Sample ID: BH23-06
 Date Collected: 09/26/23 09:35
 Date Received: 09/27/23 09:40

Lab Sample ID: 890-5357-2
 Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 63531 | 09/28/23 13:02 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63478 | 09/28/23 22:44 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63644 | 09/28/23 22:44 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63758 | 09/30/23 21:06 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.94 g | 10 mL | 63658 | 09/29/23 14:33 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63688 | 09/30/23 21:06 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 63489 | 09/28/23 10:22 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63547 | 09/28/23 19:38 | CH | EET MID |

Client Sample ID: BH23-06
 Date Collected: 09/26/23 09:40
 Date Received: 09/27/23 09:40

Lab Sample ID: 890-5357-3
 Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 63531 | 09/28/23 13:02 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63478 | 09/28/23 23:04 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63644 | 09/28/23 23:04 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63758 | 09/30/23 21:28 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.91 g | 10 mL | 63658 | 09/29/23 14:33 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63688 | 09/30/23 21:28 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 63489 | 09/28/23 10:22 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 20 | 50 mL | 50 mL | 63547 | 09/28/23 19:44 | CH | EET MID |

Client Sample ID: BH23-07
 Date Collected: 09/26/23 09:45
 Date Received: 09/27/23 09:40

Lab Sample ID: 890-5357-4
 Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 63531 | 09/28/23 13:02 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63478 | 09/28/23 23:24 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63644 | 09/28/23 23:24 | SM | EET MID |

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Lab Chronicle

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Client Sample ID: BH23-07
Date Collected: 09/26/23 09:45
Date Received: 09/27/23 09:40

Lab Sample ID: 890-5357-4
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 63758 | 09/30/23 21:49 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 63658 | 09/29/23 14:33 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63688 | 09/30/23 21:49 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 63489 | 09/28/23 10:22 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63547 | 09/28/23 19:51 | CH | EET MID |

Client Sample ID: BH23-07
Date Collected: 09/26/23 09:50
Date Received: 09/27/23 09:40

Lab Sample ID: 890-5357-5
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 63531 | 09/28/23 13:02 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63478 | 09/28/23 23:45 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63644 | 09/28/23 23:45 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63758 | 09/30/23 22:10 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 63658 | 09/29/23 14:33 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63688 | 09/30/23 22:10 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 63489 | 09/28/23 10:22 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 10 | 50 mL | 50 mL | 63547 | 09/28/23 19:58 | CH | EET MID |

Client Sample ID: BH23-08
Date Collected: 09/26/23 09:55
Date Received: 09/27/23 09:40

Lab Sample ID: 890-5357-6
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 63531 | 09/28/23 13:02 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63478 | 09/29/23 00:05 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63644 | 09/29/23 00:05 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63758 | 09/30/23 22:31 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.08 g | 10 mL | 63658 | 09/29/23 14:33 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63688 | 09/30/23 22:31 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 63489 | 09/28/23 10:22 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | 50 mL | 50 mL | 63547 | 09/28/23 20:18 | CH | EET MID |

Client Sample ID: BH23-08
Date Collected: 09/26/23 10:00
Date Received: 09/27/23 09:40

Lab Sample ID: 890-5357-7
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 63531 | 09/28/23 13:02 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63478 | 09/29/23 00:26 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63644 | 09/29/23 00:26 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63758 | 09/30/23 22:52 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.09 g | 10 mL | 63658 | 09/29/23 14:33 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63688 | 09/30/23 22:52 | SM | EET MID |

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Lab Chronicle

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

Client Sample ID: BH23-08
 Date Collected: 09/26/23 10:00
 Date Received: 09/27/23 09:40

Lab Sample ID: 890-5357-7
 Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 63489 | 09/28/23 10:22 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63547 | 09/28/23 20:24 | CH | EET MID |

Client Sample ID: BH23-09
 Date Collected: 09/26/23 10:05
 Date Received: 09/27/23 09:40

Lab Sample ID: 890-5357-8
 Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 63531 | 09/28/23 13:02 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63478 | 09/29/23 00:46 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63644 | 09/29/23 00:46 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63758 | 09/30/23 23:13 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.97 g | 10 mL | 63658 | 09/29/23 14:33 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63688 | 09/30/23 23:13 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 63489 | 09/28/23 10:22 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63547 | 09/28/23 20:31 | CH | EET MID |

Client Sample ID: BH23-09
 Date Collected: 09/26/23 10:10
 Date Received: 09/27/23 09:40

Lab Sample ID: 890-5357-9
 Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 63531 | 09/28/23 13:02 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63478 | 09/29/23 01:06 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63644 | 09/29/23 01:06 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63758 | 09/30/23 18:58 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.92 g | 10 mL | 63658 | 09/29/23 14:33 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63690 | 09/30/23 18:58 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 63489 | 09/28/23 10:22 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63547 | 09/28/23 20:38 | CH | EET MID |

Client Sample ID: BH23-09
 Date Collected: 09/26/23 10:15
 Date Received: 09/27/23 09:40

Lab Sample ID: 890-5357-10
 Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 63531 | 09/28/23 13:02 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 63478 | 09/29/23 01:27 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 63644 | 09/29/23 01:27 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 63758 | 09/30/23 19:19 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 63658 | 09/29/23 14:33 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 63690 | 09/30/23 19:19 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 63489 | 09/28/23 10:22 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 63547 | 09/28/23 20:44 | CH | EET MID |

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Vertex

Job ID: 890-5357-1

Project/Site: MIS AMIGOS CTB

SDG: 23E 05219

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-23-26 | 06-30-24 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

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Eurofins Carlsbad

Method Summary

Client: Vertex
 Project/Site: MIS AMIGOS CTB

Job ID: 890-5357-1
 SDG: 23E 05219

| Method | Method Description | Protocol | Laboratory |
|---------------|------------------------------------|-----------------|-------------------|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 300.0 | Anions, Ion Chromatography | EPA | EET MID |
| 5035 | Closed System Purge and Trap | SW846 | EET MID |
| 8015NM Prep | Microextraction | SW846 | EET MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | EET MID |

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Vertex

Job ID: 890-5357-1

Project/Site: MIS AMIGOS CTB

SDG: 23E 05219

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-5357-1 | BH23-06 | Solid | 09/26/23 09:30 | 09/27/23 09:40 | 0' |
| 890-5357-2 | BH23-06 | Solid | 09/26/23 09:35 | 09/27/23 09:40 | 2' |
| 890-5357-3 | BH23-06 | Solid | 09/26/23 09:40 | 09/27/23 09:40 | 0' |
| 890-5357-4 | BH23-07 | Solid | 09/26/23 09:45 | 09/27/23 09:40 | 2' |
| 890-5357-5 | BH23-07 | Solid | 09/26/23 09:50 | 09/27/23 09:40 | 0' |
| 890-5357-6 | BH23-08 | Solid | 09/26/23 09:55 | 09/27/23 09:40 | 2' |
| 890-5357-7 | BH23-08 | Solid | 09/26/23 10:00 | 09/27/23 09:40 | 4' |
| 890-5357-8 | BH23-09 | Solid | 09/26/23 10:05 | 09/27/23 09:40 | 0' |
| 890-5357-9 | BH23-09 | Solid | 09/26/23 10:10 | 09/27/23 09:40 | 2' |
| 890-5357-10 | BH23-09 | Solid | 09/26/23 10:15 | 09/27/23 09:40 | 4' |

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Login Sample Receipt Checklist

Client: Vertex

Job Number: 890-5357-1

SDG Number: 23E 05219

Login Number: 5357**List Source:** Eurofins Carlsbad**List Number:** 1**Creator:** Bruns, Shannon

| Question | Answer | Comment |
|--|--------|-------------------------------------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | N/A | Refer to Job Narrative for details. |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

Login Sample Receipt Checklist

Client: Vertex

Job Number: 890-5357-1

SDG Number: 23E 05219

Login Number: 5357**List Source:** Eurofins Midland**List Number:** 2**List Creation:** 09/28/23 03:15 PM**Creator:** Rodriguez, Leticia

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | N/A | | 1 |
| Sample custody seals, if present, are intact. | N/A | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| Sample collection date/times are provided. | True | | |
| Appropriate sample containers are used. | True | | |
| Sample bottles are completely filled. | True | | |
| Sample Preservation Verified. | N/A | | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | | |



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 11/22/2023 11:20:22 AM

JOB DESCRIPTION

MIS AMIGOS
23E--05219

JOB NUMBER

890-5658-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/22/2023 11:20:22 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Vertex
Project/Site: MIS AMIGOS

Laboratory Job ID: 890-5658-1
SDG: 23E-05219

Table of Contents

| | | |
|------------------------------|----|----|
| Cover Page | 1 | 3 |
| Table of Contents | 3 | 4 |
| Definitions/Glossary | 4 | 5 |
| Case Narrative | 5 | 6 |
| Client Sample Results | 6 | 6 |
| Surrogate Summary | 9 | 7 |
| QC Sample Results | 10 | 8 |
| QC Association Summary | 14 | 8 |
| Lab Chronicle | 16 | 9 |
| Certification Summary | 17 | 10 |
| Method Summary | 18 | 11 |
| Sample Summary | 19 | 11 |
| Chain of Custody | 20 | 12 |
| Receipt Checklists | 22 | 13 |
| | | 14 |

Definitions/Glossary

Client: Vertex

Job ID: 890-5658-1

Project/Site: MIS AMIGOS

SDG: 23E--05219

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

| | |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Eurofins Carlsbad

Case Narrative

Client: Vertex
 Project/Site: MIS AMIGOS

Job ID: 890-5658-1
 SDG: 23E--05219

Job ID: 890-5658-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-5658-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/17/2023 12:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BES 23 - 26 0' (890-5658-1), BES 23 - 26 2' (890-5658-2) and BES 23 - 27 4' (890-5658-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-67531/2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-67421 and analytical batch 880-67486 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-35979-A-40-C), (880-35979-A-40-D MS) and (880-35979-A-40-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-67486 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). Since an acceptable CCV was ran within the 12 hour window, the data has been qualified and reported. The associated sample is impacted: (CCV 880-67486/5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Vertex
 Project/Site: MIS AMIGOS

Job ID: 890-5658-1
 SDG: 23E--05219

Client Sample ID: BH 23 - 10 **0'**
 Date Collected: 11/16/23 09:00
 Date Received: 11/17/23 12:41

Lab Sample ID: 890-5658-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:57 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:57 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:57 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:57 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:57 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:57 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 71 | | 70 - 130 | | | 11/20/23 09:23 | 11/21/23 13:57 | 1 |
| 1,4-Difluorobenzene (Surr) | 80 | | 70 - 130 | | | 11/20/23 09:23 | 11/21/23 13:57 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/21/23 13:57 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 63.5 | | 50.4 | mg/Kg | | | 11/21/23 12:22 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4 | U | 50.4 | mg/Kg | | 11/20/23 12:14 | 11/21/23 12:22 | 1 |
| Diesel Range Organics (Over C10-C28) | 63.5 | | 50.4 | mg/Kg | | 11/20/23 12:14 | 11/21/23 12:22 | 1 |
| Oil Range Organics (Over C28-C36) | <50.4 | U | 50.4 | mg/Kg | | 11/20/23 12:14 | 11/21/23 12:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 127 | | 70 - 130 | | | 11/20/23 12:14 | 11/21/23 12:22 | 1 |
| o-Terphenyl | 118 | | 70 - 130 | | | 11/20/23 12:14 | 11/21/23 12:22 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 70.9 | | 5.05 | mg/Kg | | | 11/20/23 12:58 | 1 |

Client Sample ID: BH 23 - 10 **2'**

Lab Sample ID: 890-5658-2
Matrix: Solid

Date Collected: 11/16/23 09:05
 Date Received: 11/17/23 12:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:16 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:16 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:16 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:16 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:16 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | | | 11/20/23 09:23 | 11/21/23 13:16 | 1 |
| 1,4-Difluorobenzene (Surr) | 82 | | 70 - 130 | | | 11/20/23 09:23 | 11/21/23 13:16 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Vertex
Project/Site: MIS AMIGOS

Job ID: 890-5658-1
SDG: 23E--05219

Client Sample ID: BH 23 - 10**2'****Lab Sample ID: 890-5658-2****Matrix: Solid**

Date Collected: 11/16/23 09:05
Date Received: 11/17/23 12:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 11/21/23 13:16 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5 | U | 50.5 | mg/Kg | | | 11/21/23 12:43 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5 | U | 50.5 | mg/Kg | | 11/20/23 12:14 | 11/21/23 12:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.5 | U | 50.5 | mg/Kg | | 11/20/23 12:14 | 11/21/23 12:43 | 1 |
| OII Range Organics (Over C28-C36) | <50.5 | U | 50.5 | mg/Kg | | 11/20/23 12:14 | 11/21/23 12:43 | 1 |

Surrogate

| | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|--|----------------|----------------|---------|
| 1-Chlorooctane | 109 | | 70 - 130 | | 11/20/23 12:14 | 11/21/23 12:43 | 1 |
| <i>o</i> -Terphenyl | 96 | | 70 - 130 | | 11/20/23 12:14 | 11/21/23 12:43 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 521 | | 4.97 | mg/Kg | | | 11/20/23 13:15 | 1 |

Client Sample ID: BH 23 - 10**4'****Lab Sample ID: 890-5658-3****Matrix: Solid**

Date Collected: 11/16/23 09:10
Date Received: 11/17/23 12:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:37 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:37 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:37 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:37 | 1 |
| <i>o</i> -Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:37 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 11/20/23 09:23 | 11/21/23 13:37 | 1 |

Surrogate

| | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|--|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 | | 11/20/23 09:23 | 11/21/23 13:37 | 1 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | 11/20/23 09:23 | 11/21/23 13:37 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 11/21/23 13:37 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.7 | U | 49.7 | mg/Kg | | | 11/21/23 13:30 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 49.7 | mg/Kg | | 11/20/23 12:14 | 11/21/23 13:30 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | mg/Kg | | 11/20/23 12:14 | 11/21/23 13:30 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Vertex
 Project/Site: MIS AMIGOS

Job ID: 890-5658-1
 SDG: 23E--05219

Client Sample ID: BH 23 - 10 **4'**
 Date Collected: 11/16/23 09:10
 Date Received: 11/17/23 12:41

Lab Sample ID: 890-5658-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|----------|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | mg/Kg | | 11/20/23 12:14 | 11/21/23 13:30 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | 124 | | 70 - 130 | | | 11/20/23 12:14 | 11/21/23 13:30 | 1 |
| <i>o-Terphenyl</i> | 106 | | 70 - 130 | | | 11/20/23 12:14 | 11/21/23 13:30 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 281 | | 5.03 | mg/Kg | | | 11/20/23 13:20 | 1 |

Surrogate Summary

Client: Vertex

Job ID: 890-5658-1

Project/Site: MIS AMIGOS

SDG: 23E--05219

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) | | | | | | | | | |
|--------------------|------------------------|------------------|-------------------|--|--|--|--|--|--|--|--|--|
| 890-5658-1 | BES 23 - 26 0' | 71 | 80 | | | | | | | | | |
| 890-5658-1 MS | BES 23 - 26 0' | 116 | 112 | | | | | | | | | |
| 890-5658-1 MSD | BES 23 - 26 0' | 111 | 113 | | | | | | | | | |
| 890-5658-2 | BES 23 - 26 2' | 97 | 82 | | | | | | | | | |
| 890-5658-3 | BES 23 - 27 4' | 91 | 94 | | | | | | | | | |
| LCS 880-67374/1-B | Lab Control Sample | 122 | 117 | | | | | | | | | |
| LCSD 880-67374/2-B | Lab Control Sample Dup | 115 | 118 | | | | | | | | | |
| MB 880-67374/5-B | Method Blank | 72 | 99 | | | | | | | | | |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) | | | | | | | | | |
|----------------------|------------------------|------------------|-------------------|--|--|--|--|--|--|--|--|--|
| 880-35979-A-40-D MS | Matrix Spike | 162 S1+ | 133 S1+ | | | | | | | | | |
| 880-35979-A-40-E MSD | Matrix Spike Duplicate | 165 S1+ | 132 S1+ | | | | | | | | | |
| 890-5658-1 | BES 23 - 26 0' | 127 | 118 | | | | | | | | | |
| 890-5658-2 | BES 23 - 26 2' | 109 | 96 | | | | | | | | | |
| 890-5658-3 | BES 23 - 27 4' | 124 | 106 | | | | | | | | | |
| LCS 880-67421/2-A | Lab Control Sample | 94 | 103 | | | | | | | | | |
| LCSD 880-67421/3-A | Lab Control Sample Dup | 87 | 95 | | | | | | | | | |
| MB 880-67421/1-A | Method Blank | 136 S1+ | 126 | | | | | | | | | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Vertex
Project/Site: MIS AMIGOS

Job ID: 890-5658-1
SDG: 23E--05219

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-67374/5-B****Matrix: Solid****Analysis Batch: 67531****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 67374**

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-----------|-------|----------------|---|----------------|----------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 11/20/23 09:23 | | 11/21/23 12:34 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 11/20/23 09:23 | | 11/21/23 12:34 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 11/20/23 09:23 | | 11/21/23 12:34 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 11/20/23 09:23 | | 11/21/23 12:34 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 11/20/23 09:23 | | 11/21/23 12:34 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 11/20/23 09:23 | | 11/21/23 12:34 | | 1 |

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----------|-----------|--------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 72 | | 70 - 130 | | | 11/20/23 09:23 | 11/21/23 12:34 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | 11/20/23 09:23 | 11/21/23 12:34 | 1 |

Lab Sample ID: LCS 880-67374/1-B**Matrix: Solid****Analysis Batch: 67531****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 67374**

| Analyte | Spike | LCS | LCS | Result | Qualifier | Unit | D | %Rec | Limits | %Rec |
|---------------------|-------|--------|-----------|--------|-----------|----------|---|------|--------|------|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.1166 | | mg/Kg | 117 | 70 - 130 | | | | |
| Toluene | 0.100 | 0.1091 | | mg/Kg | 109 | 70 - 130 | | | | |
| Ethylbenzene | 0.100 | 0.1115 | | mg/Kg | 111 | 70 - 130 | | | | |
| m-Xylene & p-Xylene | 0.200 | 0.2372 | | mg/Kg | 119 | 70 - 130 | | | | |
| o-Xylene | 0.100 | 0.1130 | | mg/Kg | 113 | 70 - 130 | | | | |

| Surrogate | LCS | LCS | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----------|-----------|--------|----------|----------|---------|
| | Result | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 117 | | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-67374/2-B**Matrix: Solid****Analysis Batch: 67531****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 67374**

| Analyte | Spike | LCSD | LCSD | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|---------------------|-------|--------|-----------|--------|-----------|----------|---|------|--------|-----|-------|
| | Added | Result | Qualifier | | | | | | | | |
| Benzene | 0.100 | 0.1102 | | mg/Kg | 110 | 70 - 130 | | | | 6 | 35 |
| Toluene | 0.100 | 0.1037 | | mg/Kg | 104 | 70 - 130 | | | | 5 | 35 |
| Ethylbenzene | 0.100 | 0.1015 | | mg/Kg | 101 | 70 - 130 | | | | 9 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2175 | | mg/Kg | 109 | 70 - 130 | | | | 9 | 35 |
| o-Xylene | 0.100 | 0.1041 | | mg/Kg | 104 | 70 - 130 | | | | 8 | 35 |

| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----------|-----------|--------|----------|----------|---------|
| | Result | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 115 | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 118 | | 70 - 130 | | | | | |

Lab Sample ID: 890-5658-1 MS**Matrix: Solid****Analysis Batch: 67531****Client Sample ID: BES 23 - 26****Prep Type: Total/NA****Prep Batch: 67374**

| Analyte | Sample | Sample | Spike | MS | MS | Result | Qualifier | Unit | D | %Rec | Limits |
|---------|----------|-----------|--------|---------|-----------|--------|-----------|----------|---|------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00199 | U | 0.0990 | 0.1082 | | mg/Kg | 109 | 70 - 130 | | | |
| Toluene | <0.00199 | U | 0.0990 | 0.08862 | | mg/Kg | 90 | 70 - 130 | | | |

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Client: Vertex
Project/Site: MIS AMIGOS

Job ID: 890-5658-1
SDG: 23E--05219

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-5658-1 MS

Matrix: Solid

Analysis Batch: 67531

Client Sample ID: BES 23 - 26 0'

Prep Type: Total/NA

Prep Batch: 67374

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Ethylbenzene | <0.00199 | U | 0.0990 | 0.08971 | | mg/Kg | | 91 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.198 | 0.1806 | | mg/Kg | | 91 | 70 - 130 |
| o-Xylene | <0.00199 | U | 0.0990 | 0.09339 | | mg/Kg | | 94 | 70 - 130 |

| Surrogate | MS | MS | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 116 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 |

Lab Sample ID: 890-5658-1 MSD

Matrix: Solid

Analysis Batch: 67531

Client Sample ID: BES 23 - 26 0'

Prep Type: Total/NA

Prep Batch: 67374

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | | |
| Benzene | <0.00199 | U | 0.100 | 0.1083 | | mg/Kg | | 108 | 70 - 130 | 0 |
| Toluene | <0.00199 | U | 0.100 | 0.08077 | | mg/Kg | | 80 | 70 - 130 | 9 |
| Ethylbenzene | <0.00199 | U | 0.100 | 0.08206 | | mg/Kg | | 82 | 70 - 130 | 9 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.201 | 0.1645 | | mg/Kg | | 82 | 70 - 130 | 9 |
| o-Xylene | <0.00199 | U | 0.100 | 0.08990 | | mg/Kg | | 90 | 70 - 130 | 4 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-67421/1-A

Matrix: Solid

Analysis Batch: 67486

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67421

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 11/20/23 12:14 | 11/21/23 08:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/20/23 12:14 | 11/21/23 08:21 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/20/23 12:14 | 11/21/23 08:21 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1-Chlorooctane | 136 | S1+ | 70 - 130 | 11/20/23 12:14 | 11/21/23 08:21 | 1 |
| o-Terphenyl | 126 | | 70 - 130 | 11/20/23 12:14 | 11/21/23 08:21 | 1 |

Lab Sample ID: LCS 880-67421/2-A

Matrix: Solid

Analysis Batch: 67486

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67421

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec |
|--------------------------------------|-------|--------|-----------|-------|---|------|----------|
| | Added | Result | Qualifier | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1001 | | mg/Kg | | 100 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 991.1 | | mg/Kg | | 99 | 70 - 130 |

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QC Sample Results

Client: Vertex

Job ID: 890-5658-1

Project/Site: MIS AMIGOS

SDG: 23E--05219

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: LCS 880-67421/2-A****Matrix: Solid****Analysis Batch: 67486****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 67421**

| Surrogate | LCS | LCS | |
|---------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 94 | | 70 - 130 |
| <i>o</i> -Terphenyl | 103 | | 70 - 130 |

Lab Sample ID: LCSD 880-67421/3-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 67486****Prep Batch: 67421**

| Analyte | Spike | LCSD | LCSD | | %Rec | RPD |
|--------------------------------------|--------------|---------------|------------------|-------------|-------------|--------------|
| | Added | Result | Qualifier | Unit | D | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1043 | | mg/Kg | 104 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1004 | | mg/Kg | 100 | 70 - 130 |

| Surrogate | LCSD | LCSD | |
|---------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 87 | | 70 - 130 |
| <i>o</i> -Terphenyl | 95 | | 70 - 130 |

Lab Sample ID: 880-35979-A-40-D MS**Client Sample ID: Matrix Spike****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 67486****Prep Batch: 67421**

| Analyte | Sample | Sample | Spike | MS | MS | | %Rec |
|--------------------------------------|---------------|------------------|--------------|---------------|------------------|-------------|-------------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.5 | U | 1010 | 1213 | | mg/Kg | 120 |
| Diesel Range Organics (Over C10-C28) | <49.5 | U | 1010 | 1246 | | mg/Kg | 122 |

| Surrogate | MS | MS | |
|---------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 162 | S1+ | 70 - 130 |
| <i>o</i> -Terphenyl | 133 | S1+ | 70 - 130 |

Lab Sample ID: 880-35979-A-40-E MSD**Client Sample ID: Matrix Spike Duplicate****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 67486****Prep Batch: 67421**

| Analyte | Sample | Sample | Spike | MSD | MSD | | %Rec |
|--------------------------------------|---------------|------------------|--------------|---------------|------------------|-------------|-------------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.5 | U | 1010 | 1134 | | mg/Kg | 113 |
| Diesel Range Organics (Over C10-C28) | <49.5 | U | 1010 | 1264 | | mg/Kg | 124 |

| Surrogate | MSD | MSD | |
|---------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 165 | S1+ | 70 - 130 |
| <i>o</i> -Terphenyl | 132 | S1+ | 70 - 130 |

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QC Sample Results

Client: Vertex
 Project/Site: MIS AMIGOS

Job ID: 890-5658-1
 SDG: 23E--05219

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-67322/1-A

Matrix: Solid

Analysis Batch: 67430

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 11/19/23 16:27 | 1 |

Lab Sample ID: LCS 880-67322/2-A

Matrix: Solid

Analysis Batch: 67430

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------|
| Chloride | 250 | 230.1 | | mg/Kg | | 92 | 90 - 110 |

Lab Sample ID: LCSD 880-67322/3-A

Matrix: Solid

Analysis Batch: 67430

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | RPD | Limit | |
|----------|----------------|----------------|-------------------|-------|---|------|----------|-------|----|
| Chloride | 250 | 233.7 | | mg/Kg | | 93 | 90 - 110 | 2 | 20 |

Lab Sample ID: 890-5658-1 MS

Matrix: Solid

Analysis Batch: 67430

Client Sample ID: BES 23 - 26

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------|
| Chloride | 70.9 | | 253 | 299.9 | | mg/Kg | | 91 | 90 - 110 |

Lab Sample ID: 890-5658-1 MSD

Matrix: Solid

Analysis Batch: 67430

Client Sample ID: BES 23 - 26

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | Limit | |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------|-------|----|
| Chloride | 70.9 | | 253 | 301.4 | | mg/Kg | | 91 | 90 - 110 | 1 | 20 |

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QC Association Summary

Client: Vertex
Project/Site: MIS AMIGOS

Job ID: 890-5658-1
SDG: 23E--05219

GC VOA**Prep Batch: 67374**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5658-1 | BH 23 - 10 0' | Total/NA | Solid | 5035 | |
| 890-5658-2 | BH 23 - 10 2' | Total/NA | Solid | 5035 | |
| 890-5658-3 | BH 23 - 10 4' | Total/NA | Solid | 5035 | |
| MB 880-67374/5-B | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-67374/1-B | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-67374/2-B | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-5658-1 MS | BH 23 - 10 0' | Total/NA | Solid | 5035 | |
| 890-5658-1 MSD | BH 23 - 10 0' | Total/NA | Solid | 5035 | |

Analysis Batch: 67531

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5658-1 | BH 23 - 10 0' | Total/NA | Solid | 8021B | 67374 |
| 890-5658-2 | BH 23 - 10 2' | Total/NA | Solid | 8021B | 67374 |
| 890-5658-3 | BH 23 - 10 4' | Total/NA | Solid | 8021B | 67374 |
| MB 880-67374/5-B | Method Blank | Total/NA | Solid | 8021B | 67374 |
| LCS 880-67374/1-B | Lab Control Sample | Total/NA | Solid | 8021B | 67374 |
| LCSD 880-67374/2-B | Lab Control Sample Dup | Total/NA | Solid | 8021B | 67374 |
| 890-5658-1 MS | BH 23 - 10 0' | Total/NA | Solid | 8021B | 67374 |
| 890-5658-1 MSD | BH 23 - 10 0' | Total/NA | Solid | 8021B | 67374 |

Analysis Batch: 67623

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5658-1 | BH 23 - 10 0' | Total/NA | Solid | Total BTEX | |
| 890-5658-2 | BH 23 - 10 2' | Total/NA | Solid | Total BTEX | |
| 890-5658-3 | BH 23 - 10 4' | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Prep Batch: 67421**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 890-5658-1 | BH 23 - 10 0' | Total/NA | Solid | 8015NM Prep | |
| 890-5658-2 | BH 23 - 10 2' | Total/NA | Solid | 8015NM Prep | |
| 890-5658-3 | BH 23 - 10 4' | Total/NA | Solid | 8015NM Prep | |
| MB 880-67421/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-67421/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-67421/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-35979-A-40-D MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-35979-A-40-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 67486

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-5658-1 | BES 23 - 26 0' | Total/NA | Solid | 8015B NM | 67421 |
| 890-5658-2 | BES 23 - 26 2' | Total/NA | Solid | 8015B NM | 67421 |
| 890-5658-3 | BES 23 - 27 4' | Total/NA | Solid | 8015B NM | 67421 |
| MB 880-67421/1-A | Method Blank | Total/NA | Solid | 8015B NM | 67421 |
| LCS 880-67421/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 67421 |
| LCSD 880-67421/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 67421 |
| 880-35979-A-40-D MS | Matrix Spike | Total/NA | Solid | 8015B NM | 67421 |
| 880-35979-A-40-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 67421 |

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QC Association Summary

Client: Vertex
 Project/Site: MIS AMIGOS

Job ID: 890-5658-1
 SDG: 23E--05219

GC Semi VOA**Analysis Batch: 67588**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5658-1 | BH 23 - 10 0' | Total/NA | Solid | 8015 NM | |
| 890-5658-2 | BH 23 - 10 2' | Total/NA | Solid | 8015 NM | |
| 890-5658-3 | BH 23 - 10 4' | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 67322**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5658-1 | BH 23 - 10 0' | Soluble | Solid | DI Leach | |
| 890-5658-2 | BH 23 - 10 2' | Soluble | Solid | DI Leach | |
| 890-5658-3 | BH 23 - 10 4' | Soluble | Solid | DI Leach | |
| MB 880-67322/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-67322/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-67322/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-5658-1 MS | BH 23 - 10 0' | Soluble | Solid | DI Leach | |
| 890-5658-1 MSD | BH 23 - 10 0' | Soluble | Solid | DI Leach | |

Analysis Batch: 67430

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5658-1 | BH 23 - 10 0' | Soluble | Solid | 300.0 | 67322 |
| 890-5658-2 | BH 23 - 10 2' | Soluble | Solid | 300.0 | 67322 |
| 890-5658-3 | BH 23 - 10 4' | Soluble | Solid | 300.0 | 67322 |
| MB 880-67322/1-A | Method Blank | Soluble | Solid | 300.0 | 67322 |
| LCS 880-67322/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 67322 |
| LCSD 880-67322/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 67322 |
| 890-5658-1 MS | BH 23 - 10 0' | Soluble | Solid | 300.0 | 67322 |
| 890-5658-1 MSD | BH 23 - 10 0' | Soluble | Solid | 300.0 | 67322 |

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Lab Chronicle

Client: Vertex
Project/Site: MIS AMIGOS

Job ID: 890-5658-1
SDG: 23E--05219

Client Sample ID: BH 23 - 10 0'

Lab Sample ID: 890-5658-1

Matrix: Solid

Date Collected: 11/16/23 09:00
Date Received: 11/17/23 12:41

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 67374 | 11/20/23 09:23 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67531 | 11/21/23 13:57 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 67623 | 11/21/23 13:57 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 67588 | 11/21/23 12:22 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.92 g | 10 mL | 67421 | 11/20/23 12:14 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 67486 | 11/21/23 12:22 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 67322 | 11/20/23 09:00 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 67430 | 11/20/23 12:58 | SMC | EET MID |

Client Sample ID: BH 23 - 10 2'

Lab Sample ID: 890-5658-2

Matrix: Solid

Date Collected: 11/16/23 09:05
Date Received: 11/17/23 12:41

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 67374 | 11/20/23 09:23 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67531 | 11/21/23 13:16 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 67623 | 11/21/23 13:16 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 67588 | 11/21/23 12:43 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 67421 | 11/20/23 12:14 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 67486 | 11/21/23 12:43 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 67322 | 11/20/23 09:00 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 67430 | 11/20/23 13:15 | SMC | EET MID |

Client Sample ID: BH 23 - 10 4'

Lab Sample ID: 890-5658-3

Matrix: Solid

Date Collected: 11/16/23 09:10 Date
Received: 11/17/23 12:41

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 67374 | 11/20/23 09:23 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67531 | 11/21/23 13:37 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 67623 | 11/21/23 13:37 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 67588 | 11/21/23 13:30 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.07 g | 10 mL | 67421 | 11/20/23 12:14 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 67486 | 11/21/23 13:30 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 67322 | 11/20/23 09:00 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 67430 | 11/20/23 13:20 | SMC | EET MID |

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Vertex

Job ID: 890-5658-1

Project/Site: MIS AMIGOS

SDG: 23E--05219

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-23-26 | 06-30-24 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

Eurofins Carlsbad

Method Summary

Client: Vertex
 Project/Site: MIS AMIGOS

Job ID: 890-5658-1
 SDG: 23E--05219

| Method | Method Description | Protocol | Laboratory |
|---------------|------------------------------------|-----------------|-------------------|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 300.0 | Anions, Ion Chromatography | EPA | EET MID |
| 5035 | Closed System Purge and Trap | SW846 | EET MID |
| 8015NM Prep | Microextraction | SW846 | EET MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | EET MID |

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Vertex

Job ID: 890-5658-1

Project/Site: MIS AMIGOS

SDG: 23E--05219

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 890-5658-1 | BH 23 - 10 | Solid | 11/16/23 09:00 | 11/17/23 12:41 |
| 890-5658-2 | BH 23 - 10 | Solid | 11/16/23 09:05 | 11/17/23 12:41 |
| 890-5658-3 | BH 23 - 10 | Solid | 11/16/23 09:10 | 11/17/23 12:41 |

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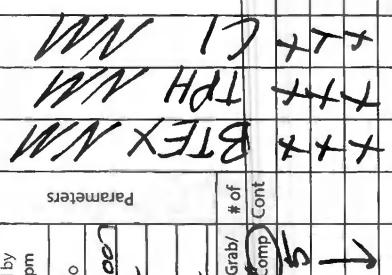
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| Chain of Custody | | Work Order No. _____ | | Page _____ of _____ | |
|--|---|--|------------------------------|---|---|
| | | | | | |
| | | www.xenco.com | | | |
| Project Manager: | Chance Dixon | Bill to: (if different) | Garret Green | Work Order Comments | |
| Company Name: | XTO | Company Name: | | Program: | <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund |
| Address: | | Address: | | State of Project: | |
| City, State ZIP: | | City, State ZIP: | | Reporting: | <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV |
| Phone: | | Email: | dixon@xentex.ca | Deliverables: | <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: |
| Project Name: | Mis Amigos | Turn Around | | Preservative Codes | |
| Project Number: | 23E-05219 | <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Pres. | | None: NO | DI Water: H ₂ O |
| Project Location: | | Date Due: | | Cool: Cool | MeOH: Me |
| Sampler's Name: | Hunter Klein | TAT starts the day received by the lab, if received by 4:30pm | | HCL: HC | HNO ₃ : HN |
| PO #: | | | | H ₂ SO ₄ : H ₂ | NaOH: Na |
| SAMPLE RECEIPT | Temp Blank: | <input checked="" type="checkbox"/> Yes/No | Wet Ice: Yes | H ₃ PO ₄ : HP | |
| Samples Received Intact: | <input checked="" type="checkbox"/> Yes/No | Thermometer ID: THM002 | | NaHSO ₄ : NABIS | |
| Cooler Custody Seals: | <input checked="" type="checkbox"/> Yes/No (N/A) | Correction Factor: -0.2 | | Na ₂ S ₂ O ₃ : NaSO ₃ | |
| Sample Custody Seals: | <input checked="" type="checkbox"/> Yes/No (N/A) | Temperature Reading: -0.4 | | Zn Acetate-NaOH: Zn | |
| Total Containers: | | Corrected Temperature: -0.2 | | NaOH+Ascorbic Acid: SAPC | |
| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ # of Comp Cont |
| BES23-06 | 0' | 11/16/23 | 9:00 | 5 | X X X X X |
| BES23-07 | 2' | | | | X X X X X |
| BES23-07 | 4' | | | | X X X X X |
| BES23-07 | | | | | X X X X X |
| ANALYSIS REQUEST | | | | | |
| 890-56558 Chain of Custody | | | | | |
|  | | | | | |
| <div style="text-align: center;">  BTEX </div> | | | | | |
| Sample Comments | | | | | |
| Total 200.7 / 6010 | 200.8 / 6020: | 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn | | | |
| Circle Method(s) and Metal(s) to be analyzed | | TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245.1 / 7470 / 7471 | | | |
| Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$5.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | | | | | |
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| 1 Hunter Klein | Chance Dixon | 11/17 | 12/4 | | |
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Chain of Custody Record



eurofins

Environment Testing

| | | | | |
|---|---|-------------------------------------|-------------------------|-------------|
| Client Information (Sub Contract Lab) | | Sampler | Carrier Tracking No(s): | COC No |
| Address | 1211 W Florida Ave, , | Lab PM | Kramer Jessica | 890-1823 1 |
| City: | | E-Mail | State of Origin | Page |
| Midland | | Jessica.Kramer@et.eurofinsus.com | New Mexico | Page 1 of 1 |
| State Zip: | TX, 79701 | Accreditations Required (See note): | | |
| Phone | 432-704-5440(Tel) | NELAP - Texas | | |
| Email | | Job #: | | |
| Project Name: | MIS AMIGOS | VO #: | 890-5658-1 | |
| Site | | PO #: | | |
| Analysis Requested | | | | |
| <input checked="" type="checkbox"/> TAT Requested (days) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) | | | | |
| 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH 8015MOD_Calc 300_ORGFM_28D/DI LEACH Chloride 8021B/8036FP_Calc (MOD) BTEX Total_BTEX_GCV | | | | |
| Total Number of containers | | | | |
| Special Instructions/Note: | | | | |
| <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | |
| Possible Hazard Identification <input checked="" type="checkbox"/> Unconfirmed | | | | |
| Deliverable Requested I II III IV Other (specify) | | | | |
| Primary Deliverable Rank 2 | | | | |
| Special Instructions/QC Requirements Method of Shipment: | | | | |
| Empty Kit Relinquished by | Date | Time | Received by | Date/Time |
| Relinquished by | Date/Time: | Company | Received by | Date/Time |
| Relinquished by | Date/Time: | Company | Received by | Date/Time |
| Custody Seals Intact: | Cooler Temperature(s) °C and Other Remarks: Δ Yes △ No | | | |

Login Sample Receipt Checklist

Client: Vertex

Job Number: 890-5658-1

SDG Number: 23E--05219

Login Number: 5658**List Source: Eurofins Carlsbad****List Number: 1****Creator: Bruns, Shannon**

| Question | Answer | Comment |
|--|--------|-------------------------------------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | N/A | Refer to Job Narrative for details. |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

Login Sample Receipt Checklist

Client: Vertex

Job Number: 890-5658-1

SDG Number: 23E--05219

Login Number: 5658**List Source: Eurofins Midland****List Number: 2****List Creation: 11/20/23 10:41 AM****Creator: Kramer, Jessica**

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 11/6/2023 10:23:31 AM

JOB DESCRIPTION

Mis Amigos
SDG NUMBER 23E-05219

JOB NUMBER

880-35072-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/6/2023 10:23:31 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Vertex
Project/Site: Mis Amigos

Laboratory Job ID: 880-35072-1
SDG: 23E-05219

Table of Contents

| | | |
|------------------------------|----|----|
| Cover Page | 1 | 3 |
| Table of Contents | 3 | 4 |
| Definitions/Glossary | 4 | 5 |
| Case Narrative | 5 | 6 |
| Client Sample Results | 7 | 6 |
| Surrogate Summary | 27 | 7 |
| QC Sample Results | 29 | 8 |
| QC Association Summary | 37 | 8 |
| Lab Chronicle | 43 | 9 |
| Certification Summary | 51 | 10 |
| Method Summary | 52 | 11 |
| Sample Summary | 53 | 11 |
| Chain of Custody | 54 | 12 |
| Receipt Checklists | 57 | 13 |

Definitions/Glossary

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| S1- | Surrogate recovery exceeds control limits, low biased. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

| | |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Eurofins Midland

Case Narrative

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Job ID: 880-35072-1

Laboratory: Eurofins Midland

Narrative

Job Narrative **880-35072-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/31/2023 11:33 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BES23-01 0.5' (880-35072-1), BES23-02 0.5' (880-35072-2), BES23-03 0.5' (880-35072-3), BES23-04 0.5' (880-35072-4), BES23-05 0.5' (880-35072-5), BES23-06 0.5' (880-35072-6), BES23-07 0.5' (880-35072-7), BES23-08 0.5' (880-35072-8), BES23-09 0.5' (880-35072-9), BES23-10 0.5' (880-35072-10), BES23-11 0.5' (880-35072-11), BES23-12 0.5' (880-35072-12), BES23-13 0.5' (880-35072-13), BES23-14 0.5' (880-35072-14), BES23-15 0.5' (880-35072-15), BES23-16 0.5' (880-35072-16), BES23-17 0.5' (880-35072-17), BES23-18 0.5' (880-35072-18), BES23-19 0.5' (880-35072-19), BES23-20 2.5' (880-35072-20), WES23-01 0.5' (880-35072-21), WES23-02 0.5' (880-35072-22), WES23-03 0.5' (880-35072-23) and WES23-04 2.5' (880-35072-24).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BES23-16 0.5' (880-35072-16), BES23-18 0.5' (880-35072-18) and BES23-19 0.5' (880-35072-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-65862/20). Evidence of matrix interferences is not obvious.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66035 and analytical batch 880-66027 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65868 and analytical batch 880-65857 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-65868 and analytical batch 880-65857 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-65857 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-65857/8).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65869 and analytical batch 880-65852

Case Narrative

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Job ID: 880-35072-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BES23-01 0.5' (880-35072-1), BES23-02 0.5' (880-35072-2), BES23-03 0.5' (880-35072-3), BES23-04 0.5' (880-35072-4), BES23-05 0.5' (880-35072-5), BES23-07 0.5' (880-35072-7), BES23-09 0.5' (880-35072-9), BES23-12 0.5' (880-35072-12), BES23-13 0.5' (880-35072-13) and BES23-14 0.5' (880-35072-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-65852/21), (CCV 880-65852/32), (CCV 880-65852/5) and (CCV 880-65852/8). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-01 0.5'**Lab Sample ID: 880-35072-1**

Matrix: Solid

Date Collected: 10/27/23 09:00

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 10/31/23 23:40 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 10/31/23 23:40 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 10/31/23 23:40 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 10/31/23 23:40 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 10/31/23 23:40 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 10/31/23 23:40 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 84 | | 70 - 130 | | 10/31/23 13:33 | 10/31/23 23:40 | 1 |
| 1,4-Difluorobenzene (Surr) | | 89 | | 70 - 130 | | 10/31/23 13:33 | 10/31/23 23:40 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 10/31/23 23:40 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.5 | U | 49.5 | mg/Kg | | | 10/31/23 14:48 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.5 | U | 49.5 | mg/Kg | | 10/31/23 12:00 | 10/31/23 14:48 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.5 | U | 49.5 | mg/Kg | | 10/31/23 12:00 | 10/31/23 14:48 | 1 |
| Oil Range Organics (Over C28-C36) | <49.5 | U | 49.5 | mg/Kg | | 10/31/23 12:00 | 10/31/23 14:48 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | | | | | | | 1 |
| 138 S1+ | | | | | | | | 10/31/23 12:00 |
| o-Terphenyl | | | | | | | | 10/31/23 12:00 |
| 132 S1+ | | | | | | | | 10/31/23 14:48 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 66.3 | | 5.05 | mg/Kg | | | 11/03/23 23:54 | 1 |

Client Sample ID: BES23-02 0.5'**Lab Sample ID: 880-35072-2**

Matrix: Solid

Date Collected: 10/27/23 09:05

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:00 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:00 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:00 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:00 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:00 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:00 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 88 | | 70 - 130 | | 10/31/23 13:33 | 11/01/23 00:00 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-02 0.5'**Lab Sample ID: 880-35072-2**

Matrix: Solid

Date Collected: 10/27/23 09:05

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 83 | | 70 - 130 | 10/31/23 13:33 | 11/01/23 00:00 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/01/23 00:00 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.7 | U | 49.7 | mg/Kg | | | 10/31/23 16:19 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 49.7 | mg/Kg | | 10/31/23 12:00 | 10/31/23 16:19 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | mg/Kg | | 10/31/23 12:00 | 10/31/23 16:19 | 1 |
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | mg/Kg | | 10/31/23 12:00 | 10/31/23 16:19 | 1 |

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 140 | S1+ | 70 - 130 | 10/31/23 12:00 | 10/31/23 16:19 | 1 |
| o-Terphenyl | 131 | S1+ | 70 - 130 | 10/31/23 12:00 | 10/31/23 16:19 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 116 | | 5.00 | mg/Kg | | | 11/04/23 00:13 | 1 |

Client Sample ID: BES23-03 0.5'**Lab Sample ID: 880-35072-3**

Matrix: Solid

Date Collected: 10/27/23 09:10

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:21 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:21 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:21 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:21 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:21 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:21 | 1 |

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | 10/31/23 13:33 | 11/01/23 00:21 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 10/31/23 13:33 | 11/01/23 00:21 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/01/23 00:21 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 10/31/23 16:41 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-03 0.5'**Lab Sample ID: 880-35072-3**

Matrix: Solid

Date Collected: 10/27/23 09:10

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 10/31/23 12:00 | 10/31/23 16:41 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 10/31/23 12:00 | 10/31/23 16:41 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 10/31/23 12:00 | 10/31/23 16:41 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 133 | S1+ | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 16:41 | 1 |
| o-Terphenyl | 123 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 16:41 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 52.8 | | 5.05 | mg/Kg | | | 11/04/23 00:20 | 1 |

Client Sample ID: BES23-04 0.5'**Lab Sample ID: 880-35072-4**

Matrix: Solid

Date Collected: 10/27/23 09:15

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:42 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:42 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:42 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:42 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:42 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 10/31/23 13:33 | 11/01/23 00:42 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 00:42 | 1 |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 00:42 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 11/01/23 00:42 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.6 | U | 49.6 | mg/Kg | | | 10/31/23 17:02 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6 | U | 49.6 | mg/Kg | | 10/31/23 12:00 | 10/31/23 17:02 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.6 | U | 49.6 | mg/Kg | | 10/31/23 12:00 | 10/31/23 17:02 | 1 |
| OII Range Organics (Over C28-C36) | <49.6 | U | 49.6 | mg/Kg | | 10/31/23 12:00 | 10/31/23 17:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 144 | S1+ | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 17:02 | 1 |
| o-Terphenyl | 133 | S1+ | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 17:02 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-04 0.5'**Lab Sample ID: 880-35072-4**

Matrix: Solid

Date Collected: 10/27/23 09:15
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 75.5 | | 4.99 | mg/Kg | | | 11/04/23 00:27 | 1 |

Client Sample ID: BES23-05 0.5'**Lab Sample ID: 880-35072-5**

Matrix: Solid

Date Collected: 10/27/23 09:20
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:02 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:02 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:02 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:02 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:02 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 88 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 01:02 | 1 |
| 1,4-Difluorobenzene (Surr) | 81 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 01:02 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 11/01/23 01:02 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5 | U | 50.5 | mg/Kg | | | 10/31/23 17:25 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5 | U | 50.5 | mg/Kg | | 10/31/23 12:00 | 10/31/23 17:25 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.5 | U | 50.5 | mg/Kg | | 10/31/23 12:00 | 10/31/23 17:25 | 1 |
| OII Range Organics (Over C28-C36) | <50.5 | U | 50.5 | mg/Kg | | 10/31/23 12:00 | 10/31/23 17:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 140 | S1+ | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 17:25 | 1 |
| <i>o</i> -Terphenyl | 129 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 17:25 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 148 | | 5.03 | mg/Kg | | | 11/04/23 00:33 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-06 0.5'**Lab Sample ID: 880-35072-6**

Matrix: Solid

Date Collected: 10/27/23 09:25

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:23 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:23 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:23 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:23 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:23 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:23 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 90 | | 70 - 130 | | 10/31/23 13:33 | 11/01/23 01:23 | 1 |
| 1,4-Difluorobenzene (Surr) | | 83 | | 70 - 130 | | 10/31/23 13:33 | 11/01/23 01:23 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/01/23 01:23 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.3 | U | 50.3 | mg/Kg | | | 10/31/23 17:47 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.3 | U | 50.3 | mg/Kg | | 10/31/23 12:00 | 10/31/23 17:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.3 | U | 50.3 | mg/Kg | | 10/31/23 12:00 | 10/31/23 17:47 | 1 |
| Oil Range Organics (Over C28-C36) | <50.3 | U | 50.3 | mg/Kg | | 10/31/23 12:00 | 10/31/23 17:47 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | | | | | | | 1 |
| o-Terphenyl | | | | | | | | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 56.9 | | 5.04 | mg/Kg | | | 11/04/23 00:40 | 1 |

Client Sample ID: BES23-07 0.5'**Lab Sample ID: 880-35072-7**

Matrix: Solid

Date Collected: 10/27/23 09:30

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:43 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:43 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:43 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:43 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:43 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 10/31/23 13:33 | 11/01/23 01:43 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 91 | | 70 - 130 | | 10/31/23 13:33 | 11/01/23 01:43 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-07 0.5'**Lab Sample ID: 880-35072-7**

Matrix: Solid

Date Collected: 10/27/23 09:30
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|----------|------|---|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 91 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 01:43 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | | 11/01/23 01:43 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 10/31/23 18:08 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | mg/Kg | | 10/31/23 12:00 | 10/31/23 18:08 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 10/31/23 12:00 | 10/31/23 18:08 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 10/31/23 12:00 | 10/31/23 18:08 | 1 |

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|----------|------|---|----------------|----------------|---------|
| 1-Chlorooctane | 141 | S1+ | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 18:08 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 51.0 | | 5.00 | mg/Kg | | | 11/04/23 00:46 | 1 |

Client Sample ID: BES23-08 0.5'**Lab Sample ID: 880-35072-8**

Matrix: Solid

Date Collected: 10/27/23 09:35
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:04 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:04 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:04 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:04 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:04 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:04 | 1 |

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|----------|------|---|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 90 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 02:04 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/01/23 02:04 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.6 | U | 49.6 | mg/Kg | | | 10/31/23 18:31 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-08 0.5'**Lab Sample ID: 880-35072-8**

Matrix: Solid

Date Collected: 10/27/23 09:35

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6 | U | 49.6 | mg/Kg | | 10/31/23 12:00 | 10/31/23 18:31 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.6 | U | 49.6 | mg/Kg | | 10/31/23 12:00 | 10/31/23 18:31 | 1 |
| OII Range Organics (Over C28-C36) | <49.6 | U | 49.6 | mg/Kg | | 10/31/23 12:00 | 10/31/23 18:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 128 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 18:31 | 1 |
| o-Terphenyl | 117 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 18:31 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 83.0 | | 5.00 | mg/Kg | | | 11/04/23 01:06 | 1 |

Client Sample ID: BES23-09 0.5'**Lab Sample ID: 880-35072-9**

Matrix: Solid

Date Collected: 10/27/23 09:40

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:25 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:25 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:25 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:25 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:25 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 93 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 02:25 | 1 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 02:25 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 11/01/23 02:25 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.4 | U | 50.4 | mg/Kg | | | 10/31/23 18:53 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4 | U | 50.4 | mg/Kg | | 10/31/23 12:00 | 10/31/23 18:53 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.4 | U | 50.4 | mg/Kg | | 10/31/23 12:00 | 10/31/23 18:53 | 1 |
| OII Range Organics (Over C28-C36) | <50.4 | U | 50.4 | mg/Kg | | 10/31/23 12:00 | 10/31/23 18:53 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 152 | S1+ | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 18:53 | 1 |
| o-Terphenyl | 136 | S1+ | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 18:53 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-09 0.5'**Lab Sample ID: 880-35072-9**

Matrix: Solid

Date Collected: 10/27/23 09:40

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 67.5 | | 4.99 | mg/Kg | | | 11/04/23 01:13 | 1 |

Client Sample ID: BES23-10 0.5'**Lab Sample ID: 880-35072-10**

Matrix: Solid

Date Collected: 10/27/23 09:45

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:45 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:45 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:45 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:45 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:45 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 10/31/23 13:33 | 11/01/23 02:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 02:45 | 1 |
| 1,4-Difluorobenzene (Surr) | 86 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 02:45 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 11/01/23 02:45 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.2 | U | 50.2 | mg/Kg | | | 10/31/23 19:15 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2 | U | 50.2 | mg/Kg | | 10/31/23 12:00 | 10/31/23 19:15 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.2 | U | 50.2 | mg/Kg | | 10/31/23 12:00 | 10/31/23 19:15 | 1 |
| OII Range Organics (Over C28-C36) | <50.2 | U | 50.2 | mg/Kg | | 10/31/23 12:00 | 10/31/23 19:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 130 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 19:15 | 1 |
| <i>o</i> -Terphenyl | 118 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 19:15 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 43.5 | | 4.97 | mg/Kg | | | 11/04/23 01:33 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-11 0.5'**Lab Sample ID: 880-35072-11**

Matrix: Solid

Date Collected: 10/27/23 09:50

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:09 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:09 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:09 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:09 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:09 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:09 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 87 | | 70 - 130 | | 10/31/23 13:33 | 11/01/23 04:09 | 1 |
| 1,4-Difluorobenzene (Surr) | | 93 | | 70 - 130 | | 10/31/23 13:33 | 11/01/23 04:09 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/01/23 04:09 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 10/31/23 19:59 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 10/31/23 12:00 | 10/31/23 19:59 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 10/31/23 12:00 | 10/31/23 19:59 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 10/31/23 12:00 | 10/31/23 19:59 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | | | | | | | 1 |
| o-Terphenyl | | | | | | | | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 227 | | 5.04 | mg/Kg | | | 11/04/23 01:39 | 1 |

Client Sample ID: BES23-12 0.5'**Lab Sample ID: 880-35072-12**

Matrix: Solid

Date Collected: 10/27/23 09:55

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:30 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:30 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:30 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:30 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:30 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:30 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 93 | | 70 - 130 | | 10/31/23 13:33 | 11/01/23 04:30 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-12 0.5'**Lab Sample ID: 880-35072-12**

Matrix: Solid

Date Collected: 10/27/23 09:55
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 81 | | 70 - 130 | 10/31/23 13:33 | 11/01/23 04:30 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/01/23 04:30 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.6 | U | 49.6 | mg/Kg | | | 10/31/23 20:22 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6 | U | 49.6 | mg/Kg | | 10/31/23 12:00 | 10/31/23 20:22 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.6 | U | 49.6 | mg/Kg | | 10/31/23 12:00 | 10/31/23 20:22 | 1 |
| Oil Range Organics (Over C28-C36) | <49.6 | U | 49.6 | mg/Kg | | 10/31/23 12:00 | 10/31/23 20:22 | 1 |

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 145 | S1+ | 70 - 130 | 10/31/23 12:00 | 10/31/23 20:22 | 1 |
| o-Terphenyl | 127 | | 70 - 130 | 10/31/23 12:00 | 10/31/23 20:22 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 94.3 | | 4.96 | mg/Kg | | | 11/04/23 01:46 | 1 |

Client Sample ID: BES23-13 0.5'**Lab Sample ID: 880-35072-13**

Matrix: Solid

Date Collected: 10/27/23 10:00
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:50 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:50 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:50 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:50 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:50 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 10/31/23 13:33 | 11/01/23 04:50 | 1 |

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | 10/31/23 13:33 | 11/01/23 04:50 | 1 |
| 1,4-Difluorobenzene (Surr) | 83 | | 70 - 130 | 10/31/23 13:33 | 11/01/23 04:50 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/01/23 04:50 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.2 | U | 50.2 | mg/Kg | | | 10/31/23 20:45 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-13 0.5'**Lab Sample ID: 880-35072-13**

Matrix: Solid

Date Collected: 10/27/23 10:00
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2 | U | 50.2 | mg/Kg | | 10/31/23 12:00 | 10/31/23 20:45 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.2 | U | 50.2 | mg/Kg | | 10/31/23 12:00 | 10/31/23 20:45 | 1 |
| OII Range Organics (Over C28-C36) | <50.2 | U | 50.2 | mg/Kg | | 10/31/23 12:00 | 10/31/23 20:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 137 | S1+ | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 20:45 | 1 |
| o-Terphenyl | 124 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 20:45 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 102 | | 5.02 | mg/Kg | | | 11/04/23 01:53 | 1 |

Client Sample ID: BES23-14 0.5'**Lab Sample ID: 880-35072-14**

Matrix: Solid

Date Collected: 10/27/23 10:05
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:11 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:11 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:11 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:11 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:11 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 82 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 05:11 | 1 |
| 1,4-Difluorobenzene (Surr) | 90 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 05:11 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 11/01/23 05:11 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.3 | U | 50.3 | mg/Kg | | | 10/31/23 21:08 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.3 | U | 50.3 | mg/Kg | | 10/31/23 12:00 | 10/31/23 21:08 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.3 | U | 50.3 | mg/Kg | | 10/31/23 12:00 | 10/31/23 21:08 | 1 |
| OII Range Organics (Over C28-C36) | <50.3 | U | 50.3 | mg/Kg | | 10/31/23 12:00 | 10/31/23 21:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 137 | S1+ | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 21:08 | 1 |
| o-Terphenyl | 127 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 21:08 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-14 0.5'**Lab Sample ID: 880-35072-14**

Matrix: Solid

Date Collected: 10/27/23 10:05
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 77.7 | | 5.00 | mg/Kg | | | 11/04/23 01:59 | 1 |

Client Sample ID: BES23-15 0.5'**Lab Sample ID: 880-35072-15**

Matrix: Solid

Date Collected: 10/27/23 10:10
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:31 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:31 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:31 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:31 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:31 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 05:31 | 1 |
| 1,4-Difluorobenzene (Surr) | 76 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 05:31 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/01/23 05:31 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.7 | U | 49.7 | mg/Kg | | | 10/31/23 21:31 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 49.7 | mg/Kg | | 10/31/23 12:00 | 10/31/23 21:31 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | mg/Kg | | 10/31/23 12:00 | 10/31/23 21:31 | 1 |
| OII Range Organics (Over C28-C36) | <49.7 | U | 49.7 | mg/Kg | | 10/31/23 12:00 | 10/31/23 21:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 119 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 21:31 | 1 |
| <i>o</i> -Terphenyl | 108 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 21:31 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 78.2 | | 4.95 | mg/Kg | | | 11/04/23 02:06 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-16 0.5'

Date Collected: 10/27/23 10:15

Date Received: 10/31/23 11:33

Sample Depth: 5'

Lab Sample ID: 880-35072-16

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:52 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:52 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:52 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:52 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:52 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 05:52 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 90 | | 70 - 130 | | 10/31/23 13:33 | 11/01/23 05:52 | 1 |
| 1,4-Difluorobenzene (Surr) | | 51 | S1- | 70 - 130 | | 10/31/23 13:33 | 11/01/23 05:52 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/01/23 05:52 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.5 | U | 49.5 | mg/Kg | | | 10/31/23 21:53 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.5 | U | 49.5 | mg/Kg | | 10/31/23 12:00 | 10/31/23 21:53 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.5 | U | 49.5 | mg/Kg | | 10/31/23 12:00 | 10/31/23 21:53 | 1 |
| Oil Range Organics (Over C28-C36) | <49.5 | U | 49.5 | mg/Kg | | 10/31/23 12:00 | 10/31/23 21:53 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | | | | | | | 1 |
| o-Terphenyl | | | | | | | | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 86.4 | | 5.03 | mg/Kg | | | 11/04/23 02:12 | 1 |

Client Sample ID: BES23-17 0.5'

Date Collected: 10/27/23 10:20

Date Received: 10/31/23 11:33

Sample Depth: 5'

Lab Sample ID: 880-35072-17

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:12 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:12 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:12 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:12 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:12 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:12 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 79 | | 70 - 130 | | 10/31/23 13:33 | 11/01/23 06:12 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-17 0.5'**Lab Sample ID: 880-35072-17**

Matrix: Solid

Date Collected: 10/27/23 10:20
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 75 | | 70 - 130 | 10/31/23 13:33 | 11/01/23 06:12 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/01/23 06:12 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.5 | U | 49.5 | mg/Kg | | | 10/31/23 22:16 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.5 | U | 49.5 | mg/Kg | | 10/31/23 12:00 | 10/31/23 22:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.5 | U | 49.5 | mg/Kg | | 10/31/23 12:00 | 10/31/23 22:16 | 1 |
| Oil Range Organics (Over C28-C36) | <49.5 | U | 49.5 | mg/Kg | | 10/31/23 12:00 | 10/31/23 22:16 | 1 |

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 118 | | 70 - 130 | 10/31/23 12:00 | 10/31/23 22:16 | 1 |
| o-Terphenyl | 106 | | 70 - 130 | 10/31/23 12:00 | 10/31/23 22:16 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 115 | | 5.04 | mg/Kg | | | 11/03/23 09:09 | 1 |

Client Sample ID: BES23-18 0.5'**Lab Sample ID: 880-35072-18**

Matrix: Solid

Date Collected: 10/27/23 10:25
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:33 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:33 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:33 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:33 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:33 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:33 | 1 |

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | 10/31/23 13:33 | 11/01/23 06:33 | 1 |
| 1,4-Difluorobenzene (Surr) | 61 | S1- | 70 - 130 | 10/31/23 13:33 | 11/01/23 06:33 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/01/23 06:33 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.4 | U | 50.4 | mg/Kg | | | 10/31/23 22:39 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-18 0.5'**Lab Sample ID: 880-35072-18**

Matrix: Solid

Date Collected: 10/27/23 10:25

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4 | U | 50.4 | mg/Kg | | 10/31/23 12:00 | 10/31/23 22:39 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.4 | U | 50.4 | mg/Kg | | 10/31/23 12:00 | 10/31/23 22:39 | 1 |
| OII Range Organics (Over C28-C36) | <50.4 | U | 50.4 | mg/Kg | | 10/31/23 12:00 | 10/31/23 22:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 110 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 22:39 | 1 |
| o-Terphenyl | 101 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 22:39 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 77.7 | | 4.98 | mg/Kg | | | 11/03/23 09:15 | 1 |

Client Sample ID: BES23-19 0.5'**Lab Sample ID: 880-35072-19**

Matrix: Solid

Date Collected: 10/27/23 10:30

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:53 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:53 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:53 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:53 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:53 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 10/31/23 13:33 | 11/01/23 06:53 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 06:53 | 1 |
| 1,4-Difluorobenzene (Surr) | 60 | S1- | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 06:53 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 11/01/23 06:53 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.1 | U | 50.1 | mg/Kg | | | 10/31/23 23:02 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1 | U | 50.1 | mg/Kg | | 10/31/23 12:00 | 10/31/23 23:02 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.1 | U | 50.1 | mg/Kg | | 10/31/23 12:00 | 10/31/23 23:02 | 1 |
| OII Range Organics (Over C28-C36) | <50.1 | U | 50.1 | mg/Kg | | 10/31/23 12:00 | 10/31/23 23:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 120 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 23:02 | 1 |
| o-Terphenyl | 110 | | 70 - 130 | | | 10/31/23 12:00 | 10/31/23 23:02 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-19 0.5'**Lab Sample ID: 880-35072-19**

Matrix: Solid

Date Collected: 10/27/23 10:30
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 117 | | 4.99 | mg/Kg | | | 11/03/23 09:20 | 1 |

Client Sample ID: BES23-20 0.5'**Lab Sample ID: 880-35072-20**

Matrix: Solid

Date Collected: 10/27/23 10:35
Date Received: 10/31/23 11:33
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 07:14 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 07:14 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 07:14 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 07:14 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 10/31/23 13:33 | 11/01/23 07:14 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 10/31/23 13:33 | 11/01/23 07:14 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 07:14 | 1 |
| 1,4-Difluorobenzene (Surr) | 84 | | 70 - 130 | | | 10/31/23 13:33 | 11/01/23 07:14 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/01/23 07:14 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 10/31/23 23:25 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 10/31/23 12:06 | 10/31/23 23:25 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 10/31/23 12:06 | 10/31/23 23:25 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 10/31/23 12:06 | 10/31/23 23:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 121 | | 70 - 130 | | | 10/31/23 12:06 | 10/31/23 23:25 | 1 |
| <i>o</i> -Terphenyl | 114 | | 70 - 130 | | | 10/31/23 12:06 | 10/31/23 23:25 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 66.5 | | 5.01 | mg/Kg | | | 11/03/23 09:25 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: WES23-01 0-0.5'

Date Collected: 10/27/23 10:40

Date Received: 10/31/23 11:33

Sample Depth: 5'

Lab Sample ID: 880-35072-21

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:43 | 11/02/23 18:55 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:43 | 11/02/23 18:55 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:43 | 11/02/23 18:55 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/02/23 08:43 | 11/02/23 18:55 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:43 | 11/02/23 18:55 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/02/23 08:43 | 11/02/23 18:55 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 93 | | 70 - 130 | | 11/02/23 08:43 | 11/02/23 18:55 | 1 |
| 1,4-Difluorobenzene (Surr) | | 113 | | 70 - 130 | | 11/02/23 08:43 | 11/02/23 18:55 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/02/23 18:55 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5 | U | 50.5 | mg/Kg | | | 10/31/23 22:17 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5 | U | 50.5 | mg/Kg | | 10/31/23 11:56 | 10/31/23 22:17 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.5 | U | 50.5 | mg/Kg | | 10/31/23 11:56 | 10/31/23 22:17 | 1 |
| Oil Range Organics (Over C28-C36) | <50.5 | U | 50.5 | mg/Kg | | 10/31/23 11:56 | 10/31/23 22:17 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | | | | | | | 1 |
| o-Terphenyl | | | | | | | | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 86.0 | | 5.01 | mg/Kg | | | 11/03/23 09:41 | 1 |

Client Sample ID: WES23-02 0-0.5'

Date Collected: 10/27/23 10:45

Date Received: 10/31/23 11:33

Sample Depth: 5'

Lab Sample ID: 880-35072-22

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:15 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:15 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:15 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:15 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:15 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:15 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 104 | | 70 - 130 | | 11/02/23 08:43 | 11/02/23 19:15 | 1 |

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Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: WES23-02 0-0.5'**Lab Sample ID: 880-35072-22**

Matrix: Solid

Date Collected: 10/27/23 10:45

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 111 | | 70 - 130 | 11/02/23 08:43 | 11/02/23 19:15 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 11/02/23 19:15 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5 | U | 50.5 | mg/Kg | | | 10/31/23 22:43 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5 | U | 50.5 | mg/Kg | | 10/31/23 11:56 | 10/31/23 22:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.5 | U | 50.5 | mg/Kg | | 10/31/23 11:56 | 10/31/23 22:43 | 1 |
| Oil Range Organics (Over C28-C36) | <50.5 | U | 50.5 | mg/Kg | | 10/31/23 11:56 | 10/31/23 22:43 | 1 |

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 78 | | 70 - 130 | 10/31/23 11:56 | 10/31/23 22:43 | 1 |
| o-Terphenyl | 88 | | 70 - 130 | 10/31/23 11:56 | 10/31/23 22:43 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 68.6 | | 5.04 | mg/Kg | | | 11/03/23 09:46 | 1 |

Client Sample ID: WES23-03 0-0.5'**Lab Sample ID: 880-35072-23**

Matrix: Solid

Date Collected: 10/27/23 10:50

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:36 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:36 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:36 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:36 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:36 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:36 | 1 |

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | 11/02/23 08:43 | 11/02/23 19:36 | 1 |
| 1,4-Difluorobenzene (Surr) | 123 | | 70 - 130 | 11/02/23 08:43 | 11/02/23 19:36 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/02/23 19:36 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 10/31/23 23:10 | 1 |

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Client Sample Results

Client: Vertex
Project/Site: Mis AmigosJob ID: 880-35072-1
SDG: 23E-05219**Client Sample ID: WES23-03 0-0.5'****Lab Sample ID: 880-35072-23**

Matrix: Solid

Date Collected: 10/27/23 10:50

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 10/31/23 11:56 | 10/31/23 23:10 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 10/31/23 11:56 | 10/31/23 23:10 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 10/31/23 11:56 | 10/31/23 23:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 89 | | 70 - 130 | | | 10/31/23 11:56 | 10/31/23 23:10 | 1 |
| o-Terphenyl | 99 | | 70 - 130 | | | 10/31/23 11:56 | 10/31/23 23:10 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 169 | | 4.99 | mg/Kg | | | 11/03/23 09:51 | 1 |

Client Sample ID: WES23-04 0-2.5'**Lab Sample ID: 880-35072-24**

Matrix: Solid

Date Collected: 10/27/23 10:55

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:56 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:56 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:56 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:56 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:56 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 11/02/23 08:43 | 11/02/23 19:56 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | | 11/02/23 08:43 | 11/02/23 19:56 | 1 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 | | | 11/02/23 08:43 | 11/02/23 19:56 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 11/02/23 19:56 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.7 | U | 49.7 | mg/Kg | | | 10/31/23 23:37 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 49.7 | mg/Kg | | 10/31/23 11:56 | 10/31/23 23:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | mg/Kg | | 10/31/23 11:56 | 10/31/23 23:37 | 1 |
| OII Range Organics (Over C28-C36) | <49.7 | U | 49.7 | mg/Kg | | 10/31/23 11:56 | 10/31/23 23:37 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 70 | | 70 - 130 | | | 10/31/23 11:56 | 10/31/23 23:37 | 1 |
| o-Terphenyl | 77 | | 70 - 130 | | | 10/31/23 11:56 | 10/31/23 23:37 | 1 |

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Client Sample Results

Client: Vertex
 Project/Site: Mis Amigos

Job ID: 880-35072-1
 SDG: 23E-05219

Client Sample ID: WES23-04 0-2.5'**Lab Sample ID: 880-35072-24**

Matrix: Solid

Date Collected: 10/27/23 10:55

Date Received: 10/31/23 11:33

Sample Depth: 5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 167 | | 5.05 | mg/Kg | | | 11/03/23 09:56 | 1 |

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Surrogate Summary

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|---------------------|------------------------|--|-------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 880-34990-A-8-A MB | Method Blank | 89 | 77 |
| 880-35072-1 | BES23-01 0.5' | 84 | 89 |
| 880-35072-1 MS | BES23-01 0.5' | 102 | 121 |
| 880-35072-1 MSD | BES23-01 0.5' | 103 | 119 |
| 880-35072-2 | BES23-02 0.5' | 88 | 83 |
| 880-35072-3 | BES23-03 0.5' | 89 | 95 |
| 880-35072-4 | BES23-04 0.5' | 92 | 92 |
| 880-35072-5 | BES23-05 0.5' | 88 | 81 |
| 880-35072-6 | BES23-06 0.5' | 90 | 83 |
| 880-35072-7 | BES23-07 0.5' | 91 | 91 |
| 880-35072-8 | BES23-08 0.5' | 90 | 91 |
| 880-35072-9 | BES23-09 0.5' | 93 | 89 |
| 880-35072-10 | BES23-10 0.5' | 92 | 86 |
| 880-35072-11 | BES23-11 0.5' | 87 | 93 |
| 880-35072-12 | BES23-12 0.5' | 93 | 81 |
| 880-35072-13 | BES23-13 0.5' | 89 | 83 |
| 880-35072-14 | BES23-14 0.5' | 82 | 90 |
| 880-35072-15 | BES23-15 0.5' | 89 | 76 |
| 880-35072-16 | BES23-16 0.5' | 90 | 51 S1- |
| 880-35072-17 | BES23-17 0.5' | 79 | 75 |
| 880-35072-18 | BES23-18 0.5' | 89 | 61 S1- |
| 880-35072-19 | BES23-19 0.5' | 89 | 60 S1- |
| 880-35072-20 | BES23-20 2.5' | 89 | 84 |
| 880-35072-21 | WES23-01 0.5' | 93 | 113 |
| 880-35072-22 | WES23-02 0.5' | 104 | 111 |
| 880-35072-23 | WES23-03 0.5' | 98 | 123 |
| 880-35072-24 | WES23-04 2.5' | 98 | 109 |
| 880-35134-A-4-D MS | Matrix Spike | 102 | 104 |
| 880-35134-A-4-E MSD | Matrix Spike Duplicate | 91 | 99 |
| LCS 880-65905/1-A | Lab Control Sample | 107 | 118 |
| LCS 880-66035/1-A | Lab Control Sample | 95 | 104 |
| LCSD 880-65905/2-A | Lab Control Sample Dup | 108 | 114 |
| LCSD 880-66035/2-A | Lab Control Sample Dup | 102 | 106 |
| MB 880-65905/5-A | Method Blank | 70 | 101 |
| MB 880-66035/5-A | Method Blank | 110 | 144 S1+ |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|---------------------|------------------------|--|-------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 880-34966-A-1-B MS | Matrix Spike | 77 | 73 |
| 880-34966-A-1-C MSD | Matrix Spike Duplicate | 76 | 73 |
| 880-35072-1 | BES23-01 0.5' | 138 S1+ | 132 S1+ |
| 880-35072-1 MS | BES23-01 0.5' | 126 | 107 |

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Surrogate Summary

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|--------------------|------------------------|--|-------------------|--|
| | | 1CO1 (70-130) | OTPH1 (70-130) | |
| 880-35072-1 MSD | BES23-01 0.5' | 126 | 107 | |
| 880-35072-2 | BES23-02 0.5' | 140 S1+ | 131 S1+ | |
| 880-35072-3 | BES23-03 0.5' | 133 S1+ | 123 | |
| 880-35072-4 | BES23-04 0.5' | 144 S1+ | 133 S1+ | |
| 880-35072-5 | BES23-05 0.5' | 140 S1+ | 129 | |
| 880-35072-6 | BES23-06 0.5' | 127 | 116 | |
| 880-35072-7 | BES23-07 0.5' | 141 S1+ | 131 S1+ | |
| 880-35072-8 | BES23-08 0.5' | 128 | 117 | |
| 880-35072-9 | BES23-09 0.5' | 152 S1+ | 136 S1+ | |
| 880-35072-10 | BES23-10 0.5' | 130 | 118 | |
| 880-35072-11 | BES23-11 0.5' | 115 | 101 | |
| 880-35072-12 | BES23-12 0.5' | 145 S1+ | 127 | |
| 880-35072-13 | BES23-13 0.5' | 137 S1+ | 124 | |
| 880-35072-14 | BES23-14 0.5' | 137 S1+ | 127 | |
| 880-35072-15 | BES23-15 0.5' | 119 | 108 | |
| 880-35072-16 | BES23-16 0.5' | 121 | 110 | |
| 880-35072-17 | BES23-17 0.5' | 118 | 106 | |
| 880-35072-18 | BES23-18 0.5' | 110 | 101 | |
| 880-35072-19 | BES23-19 0.5' | 120 | 110 | |
| 880-35072-20 | BES23-20 2.5' | 121 | 114 | |
| 880-35072-21 | WES23-01 0.5' | 73 | 86 | |
| 880-35072-22 | WES23-02 0.5' | 78 | 88 | |
| 880-35072-23 | WES23-03 0.5' | 89 | 99 | |
| 880-35072-24 | WES23-04 2.5' | 70 | 77 | |
| LCS 880-65868/2-A | Lab Control Sample | 89 | 96 | |
| LCS 880-65869/2-A | Lab Control Sample | 101 | 111 | |
| LCSD 880-65868/3-A | Lab Control Sample Dup | 88 | 97 | |
| LCSD 880-65869/3-A | Lab Control Sample Dup | 100 | 103 | |
| MB 880-65868/1-A | Method Blank | 122 | 148 S1+ | |
| MB 880-65869/1-A | Method Blank | 215 S1+ | 205 S1+ | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: 880-34990-A-8-A MB****Matrix: Solid****Analysis Batch: 65862****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 65867**

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-----------|-----------|--------|----------------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 10/31/23 10:25 | | 10/31/23 18:09 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 10/31/23 10:25 | | 10/31/23 18:09 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 10/31/23 10:25 | | 10/31/23 18:09 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 10/31/23 10:25 | | 10/31/23 18:09 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 10/31/23 10:25 | | 10/31/23 18:09 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 10/31/23 10:25 | | 10/31/23 18:09 | | 1 |
| Surrogate | MB | MB | %Recovery | Qualifier | Limits | | D | Prepared | Analyzed | Dil Fac |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | | | | | 10/31/23 10:25 | 10/31/23 18:09 | 1 |
| 1,4-Difluorobenzene (Surr) | 77 | | 70 - 130 | | | | | 10/31/23 10:25 | 10/31/23 18:09 | 1 |

Lab Sample ID: MB 880-65905/5-A**Matrix: Solid****Analysis Batch: 65862****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 65905**

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-----------|-----------|--------|----------------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 10/31/23 13:33 | | 10/31/23 23:18 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 10/31/23 13:33 | | 10/31/23 23:18 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 10/31/23 13:33 | | 10/31/23 23:18 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 10/31/23 13:33 | | 10/31/23 23:18 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 10/31/23 13:33 | | 10/31/23 23:18 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 10/31/23 13:33 | | 10/31/23 23:18 | | 1 |
| Surrogate | MB | MB | %Recovery | Qualifier | Limits | | D | Prepared | Analyzed | Dil Fac |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 70 | | 70 - 130 | | | | | 10/31/23 13:33 | 10/31/23 23:18 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | | | | 10/31/23 13:33 | 10/31/23 23:18 | 1 |

Lab Sample ID: LCS 880-65905/1-A**Matrix: Solid****Analysis Batch: 65862****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 65905**

| Analyte | Spike | LCS | LCS | Result | Qualifier | Unit | D | %Rec | Limits | |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------|---|------|--------|--|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.1054 | | mg/Kg | 105 | 70 - 130 | | | | |
| Toluene | 0.100 | 0.09589 | | mg/Kg | 96 | 70 - 130 | | | | |
| Ethylbenzene | 0.100 | 0.09078 | | mg/Kg | 91 | 70 - 130 | | | | |
| m-Xylene & p-Xylene | 0.200 | 0.1925 | | mg/Kg | 96 | 70 - 130 | | | | |
| o-Xylene | 0.100 | 0.09376 | | mg/Kg | 94 | 70 - 130 | | | | |
| Surrogate | LCS | LCS | %Recovery | Qualifier | Limits | | D | %Rec | Limits | |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 118 | | 70 - 130 | | | | | | | |

Lab Sample ID: LCSD 880-65905/2-A**Matrix: Solid****Analysis Batch: 65862****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 65905**

| Analyte | Spike | LCSD | LCSD | Result | Qualifier | Unit | D | %Rec | Limits | |
|---------|-------|---------|-----------|--------|-----------|----------|---|------|--------|--|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.09973 | | mg/Kg | 100 | 70 - 130 | | | | |

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QC Sample Results

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: LCSD 880-65905/2-A****Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 65862****Prep Batch: 65905**

| Analyte | | Spike | LCSD | LCSD | Unit | D | %Rec | Limits | RPD | RPD |
|---------------------|--|-------|---------|-----------|-------|---|------|----------|-----|-----|
| | | Added | Result | Qualifier | | | | | | |
| Toluene | | 0.100 | 0.09197 | | mg/Kg | | 92 | 70 - 130 | 4 | 35 |
| Ethylbenzene | | 0.100 | 0.08653 | | mg/Kg | | 87 | 70 - 130 | 5 | 35 |
| m-Xylene & p-Xylene | | 0.200 | 0.1806 | | mg/Kg | | 90 | 70 - 130 | 6 | 35 |
| o-Xylene | | 0.100 | 0.08883 | | mg/Kg | | 89 | 70 - 130 | 5 | 35 |

| Surrogate | LCSD | LCSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 114 | | 70 - 130 |

Lab Sample ID: 880-35072-1 MS**Client Sample ID: BES23-01 0.5'****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 65862****Prep Batch: 65905**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | Limits | RPD |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | | |
| Benzene | <0.00199 | U | 0.0996 | 0.1012 | | mg/Kg | | 102 | 70 - 130 | |
| Toluene | <0.00199 | U | 0.0996 | 0.09205 | | mg/Kg | | 92 | 70 - 130 | |
| Ethylbenzene | <0.00199 | U | 0.0996 | 0.08690 | | mg/Kg | | 87 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.199 | 0.1828 | | mg/Kg | | 92 | 70 - 130 | |
| o-Xylene | <0.00199 | U | 0.0996 | 0.08780 | | mg/Kg | | 88 | 70 - 130 | |

| Surrogate | MS | MS | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 121 | | 70 - 130 |

Lab Sample ID: 880-35072-1 MSD**Client Sample ID: BES23-01 0.5'****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 65862****Prep Batch: 65905**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | Limits | RPD |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | | |
| Benzene | <0.00199 | U | 0.0992 | 0.1116 | | mg/Kg | | 113 | 70 - 130 | 10 |
| Toluene | <0.00199 | U | 0.0992 | 0.1040 | | mg/Kg | | 105 | 70 - 130 | 12 |
| Ethylbenzene | <0.00199 | U | 0.0992 | 0.09804 | | mg/Kg | | 99 | 70 - 130 | 12 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.198 | 0.2064 | | mg/Kg | | 104 | 70 - 130 | 12 |
| o-Xylene | <0.00199 | U | 0.0992 | 0.09902 | | mg/Kg | | 100 | 70 - 130 | 12 |

| Surrogate | MSD | MSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 119 | | 70 - 130 |

Lab Sample ID: MB 880-66035/5-A**Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66027****Prep Batch: 66035**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |

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QC Sample Results

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: MB 880-66035/5-A****Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66027****Prep Batch: 66035**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |
| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac | | |
| | %Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 | 11/02/23 08:43 | 11/02/23 11:29 | 1 | | |
| 1,4-Difluorobenzene (Surr) | 144 | S1+ | 70 - 130 | 11/02/23 08:43 | 11/02/23 11:29 | 1 | | |

Lab Sample ID: LCS 880-66035/1-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66027****Prep Batch: 66035**

| Analyte | Spikes | LCS | LCS | Unit | D | Prepared | %Rec | Limits |
|-----------------------------|-----------|-----------|-----------|----------|----------|----------|----------|--------|
| | Added | Result | Qualifier | | | | | |
| Benzene | 0.100 | 0.09947 | | mg/Kg | | 99 | 70 - 130 | |
| Toluene | 0.100 | 0.08623 | | mg/Kg | | 86 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.08715 | | mg/Kg | | 87 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1907 | | mg/Kg | | 95 | 70 - 130 | |
| o-Xylene | 0.100 | 0.08967 | | mg/Kg | | 90 | 70 - 130 | |
| Surrogate | LCS | LCS | Limits | Prepared | Analyzed | Dil Fac | | |
| | %Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-66035/2-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66027****Prep Batch: 66035**

| Analyte | Spikes | LCSD | LCSD | Unit | D | Prepared | %Rec | RPD |
|-----------------------------|-----------|-----------|-----------|----------|----------|----------|----------|-------|
| | Added | Result | Qualifier | | | | | |
| Benzene | 0.100 | 0.1054 | | mg/Kg | | 105 | 70 - 130 | 6 |
| Toluene | 0.100 | 0.08968 | | mg/Kg | | 90 | 70 - 130 | 4 |
| Ethylbenzene | 0.100 | 0.09339 | | mg/Kg | | 93 | 70 - 130 | 7 |
| m-Xylene & p-Xylene | 0.200 | 0.2051 | | mg/Kg | | 103 | 70 - 130 | 7 |
| o-Xylene | 0.100 | 0.09722 | | mg/Kg | | 97 | 70 - 130 | 8 |
| Surrogate | LCSD | LCSD | Limits | Prepared | Analyzed | Dil Fac | | Limit |
| | %Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 | | | | | |

Lab Sample ID: 880-35134-A-4-D MS**Client Sample ID: Matrix Spike****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66027****Prep Batch: 66035**

| Analyte | Sample | Sample | Spikes | MS | MS | Unit | D | Prepared | %Rec | Limits |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|----------|----------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | |
| Benzene | <0.00199 | U | 0.0996 | 0.1066 | | mg/Kg | | 107 | 70 - 130 | |
| Toluene | <0.00199 | U | 0.0996 | 0.09336 | | mg/Kg | | 94 | 70 - 130 | |
| Ethylbenzene | <0.00199 | U | 0.0996 | 0.09136 | | mg/Kg | | 92 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.199 | 0.2067 | | mg/Kg | | 104 | 70 - 130 | |
| o-Xylene | <0.00199 | U | 0.0996 | 0.09830 | | mg/Kg | | 98 | 70 - 130 | |

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QC Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-35134-A-4-D MS

Matrix: Solid

Analysis Batch: 66027

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66035

| Surrogate | MS | MS | %Recovery | Qualifier | Limits |
|-----------------------------|-----|----|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 102 | | | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 104 | | | | 70 - 130 |

Lab Sample ID: 880-35134-A-4-E MSD

Matrix: Solid

Analysis Batch: 66027

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66035

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD RPD | Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|---------|-------|
| Benzene | <0.00199 | U | 0.100 | 0.1091 | | mg/Kg | | 109 | 70 - 130 | 2 | 35 |
| Toluene | <0.00199 | U | 0.100 | 0.09621 | | mg/Kg | | 96 | 70 - 130 | 3 | 35 |
| Ethylbenzene | <0.00199 | U | 0.100 | 0.08962 | | mg/Kg | | 89 | 70 - 130 | 2 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.201 | 0.2017 | | mg/Kg | | 100 | 70 - 130 | 2 | 35 |
| o-Xylene | <0.00199 | U | 0.100 | 0.09642 | | mg/Kg | | 96 | 70 - 130 | 2 | 35 |
| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | | | | | | |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-65868/1-A

Matrix: Solid

Analysis Batch: 65857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65868

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------------|--------------|-----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 10/31/23 07:56 | 10/31/23 07:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 10/31/23 07:56 | 10/31/23 07:58 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 10/31/23 07:56 | 10/31/23 07:58 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | MB Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 122 | | 70 - 130 | | | 10/31/23 07:56 | 10/31/23 07:58 | 1 |
| o-Terphenyl | 148 | S1+ | 70 - 130 | | | 10/31/23 07:56 | 10/31/23 07:58 | 1 |

Lab Sample ID: LCS 880-65868/2-A

Matrix: Solid

Analysis Batch: 65857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65868

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|--------------------------------------|---------------|---------------|---------------|-------|---|------|----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 812.0 | | mg/Kg | | 81 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 840.5 | | mg/Kg | | 84 | 70 - 130 |
| Surrogate | LCS %Recovery | LCS Qualifier | LCS Limits | | | | |
| 1-Chlorooctane | 89 | | 70 - 130 | | | | |
| o-Terphenyl | 96 | | 70 - 130 | | | | |

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QC Sample Results

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: LCSD 880-65868/3-A****Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 65857****Prep Batch: 65868**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | RPD | RPD Limit |
|--------------------------------------|----------------|----------------|-------------------|-------|---|------|----------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 969.2 | | mg/Kg | | 97 | 18 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 871.1 | | mg/Kg | | 87 | 70 - 130 | 4 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|----------------|-------------------|-------------------|----------------|
| 1-Chlorooctane | 88 | | 70 - 130 |
| o-Terphenyl | 97 | | 70 - 130 |

Lab Sample ID: 880-34966-A-1-B MS**Client Sample ID: Matrix Spike****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 65857****Prep Batch: 65868**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | RPD |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U F1 | 991 | 663.3 | F1 | mg/Kg | | 64 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U F1 | 991 | 655.0 | F1 | mg/Kg | | 66 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | MS Limits |
|----------------|-----------------|-----------------|--------------|
| 1-Chlorooctane | 77 | | 70 - 130 |
| o-Terphenyl | 73 | | 70 - 130 |

Lab Sample ID: 880-34966-A-1-C MSD**Client Sample ID: Matrix Spike Duplicate****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 65857****Prep Batch: 65868**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD |
|--------------------------------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U F1 | 991 | 660.1 | F1 | mg/Kg | | 64 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U F1 | 991 | 668.9 | F1 | mg/Kg | | 67 | 70 - 130 |

| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits |
|----------------|------------------|------------------|---------------|
| 1-Chlorooctane | 76 | | 70 - 130 |
| o-Terphenyl | 73 | | 70 - 130 |

Lab Sample ID: MB 880-65869/1-A**Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 65852****Prep Batch: 65869**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------------|-----------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 10/31/23 08:00 | 10/31/23 08:36 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 10/31/23 08:00 | 10/31/23 08:36 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 10/31/23 08:00 | 10/31/23 08:36 | 1 |

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QC Sample Results

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: MB 880-65869/1-A****Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 65852****Prep Batch: 65869**

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|----|----|-----------|-----------|----------|----------------|----------------|---------|
| | | | | | | | | |
| 1-Chlorooctane | | | 215 | S1+ | 70 - 130 | 10/31/23 08:00 | 10/31/23 08:36 | 1 |
| <i>o</i> -Terphenyl | | | 205 | S1+ | 70 - 130 | 10/31/23 08:00 | 10/31/23 08:36 | 1 |

Lab Sample ID: LCS 880-65869/2-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 65852****Prep Batch: 65869**

| Analyte | Spikes | LCS | LCS | Unit | D | %Rec | Limits | RPD |
|--------------------------------------|--------|--------|-----------|-------|---|------|----------|-----|
| | Added | Result | Qualifier | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 905.2 | | mg/Kg | | 91 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 1000 | 899.4 | | mg/Kg | | 90 | 70 - 130 | |
| Surrogate | LCS | LCS | Limits | | | | | |
| 1-Chlorooctane | 101 | | 70 - 130 | | | | | |
| <i>o</i> -Terphenyl | 111 | | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-65869/3-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 65852****Prep Batch: 65869**

| Analyte | Spikes | LCSD | LCSD | Unit | D | %Rec | Limits | RPD |
|--------------------------------------|--------|--------|-----------|-------|---|------|----------|-----|
| | Added | Result | Qualifier | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 854.2 | | mg/Kg | | 85 | 70 - 130 | 6 |
| Diesel Range Organics (Over C10-C28) | 1000 | 852.5 | | mg/Kg | | 85 | 70 - 130 | 5 |
| Surrogate | LCSD | LCSD | Limits | | | | | |
| 1-Chlorooctane | 100 | | 70 - 130 | | | | | |
| <i>o</i> -Terphenyl | 103 | | 70 - 130 | | | | | |

Lab Sample ID: 880-35072-1 MS**Client Sample ID: BES23-01 0.5'****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 65852****Prep Batch: 65869**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec |
|--------------------------------------|--------|-----------|----------|--------|-----------|-------|---|------|
| | Result | Qualifier | Added | Result | Qualifier | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <49.5 | U | 1010 | 1241 | | mg/Kg | | 121 |
| Diesel Range Organics (Over C10-C28) | <49.5 | U | 1010 | 1182 | | mg/Kg | | 116 |
| Surrogate | MS | MS | Limits | | | | | |
| 1-Chlorooctane | 126 | | 70 - 130 | | | | | |
| <i>o</i> -Terphenyl | 107 | | 70 - 130 | | | | | |

Eurofins Midland

QC Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-35072-1 MSD

Matrix: Solid

Analysis Batch: 65852

Client Sample ID: BES23-01 0.5'

Prep Type: Total/NA

Prep Batch: 65869

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.5 | U | 1010 | 1232 | | mg/Kg | | 120 | 70 - 130 | 1 20 |
| Diesel Range Organics (Over C10-C28) | <49.5 | U | 1010 | 1187 | | mg/Kg | | 116 | 70 - 130 | 0 20 |
| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits | | | | | | | |
| 1-Chlorooctane | 126 | | 70 - 130 | | | | | | | |
| <i>o</i> -Terphenyl | 107 | | 70 - 130 | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65885/1-A

Matrix: Solid

Analysis Batch: 65984

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|--|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 11/03/23 08:38 | 1 |

Lab Sample ID: LCS 880-65885/2-A

Matrix: Solid

Analysis Batch: 65984

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | | |
|----------|-------------|------------|---------------|-------|---|------|----------|--|--|
| Chloride | 250 | 256.2 | | mg/Kg | | 102 | 90 - 110 | | |

Lab Sample ID: LCSD 880-65885/3-A

Matrix: Solid

Analysis Batch: 65984

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|----------|-----|-----------|
| Chloride | 250 | 259.1 | | mg/Kg | | 104 | 90 - 110 | 1 | 20 |

Lab Sample ID: 880-35073-A-2-B MS

Matrix: Solid

Analysis Batch: 65984

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Chloride | 188 | | 248 | 431.3 | | mg/Kg | | 98 | 90 - 110 |

Lab Sample ID: 880-35073-A-2-C MSD

Matrix: Solid

Analysis Batch: 65984

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----------|
| Chloride | 188 | | 248 | 438.0 | | mg/Kg | | 101 | 90 - 110 | 2 20 |

Eurofins Midland

QC Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-65886/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 65985

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 11/03/23 22:54 | 1 |

Lab Sample ID: LCS 880-65886/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 65985

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | RPD |
|----------|----------------|---------------|------------------|-------|------|----------|-------|
| | | | | mg/Kg | %Rec | Limits | Limit |
| Chloride | 250 | 251.1 | | | 100 | 90 - 110 | |

Lab Sample ID: LCSD 880-65886/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 65985

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | RPD |
|----------|----------------|----------------|-------------------|-------|------|----------|-------|
| | | | | mg/Kg | %Rec | Limits | Limit |
| Chloride | 250 | 251.3 | | | 101 | 90 - 110 | 0 20 |

Lab Sample ID: 880-35072-7 MS

Client Sample ID: BES23-07 0.5'

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 65985

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | RPD |
|----------|------------------|---------------------|----------------|--------------|-----------------|------|-----|----------|------|
| | | | | mg/Kg | | | | | |
| Chloride | 51.0 | | 250 | 314.7 | | | 105 | 90 - 110 | 0 20 |

Lab Sample ID: 880-35072-7 MSD

Client Sample ID: BES23-07 0.5'

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 65985

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD |
|----------|------------------|---------------------|----------------|---------------|------------------|------|-----|----------|------|
| | | | | mg/Kg | | | | | |
| Chloride | 51.0 | | 250 | 313.9 | | | 105 | 90 - 110 | 0 20 |

Eurofins Midland

QC Association SummaryClient: Vertex
Project/Site: Mis AmigosJob ID: 880-35072-1
SDG: 23E-05219**GC VOA****Analysis Batch: 65862**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-35072-1 | BES23-01 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-2 | BES23-02 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-3 | BES23-03 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-4 | BES23-04 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-5 | BES23-05 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-6 | BES23-06 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-7 | BES23-07 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-8 | BES23-08 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-9 | BES23-09 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-10 | BES23-10 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-11 | BES23-11 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-12 | BES23-12 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-13 | BES23-13 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-14 | BES23-14 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-15 | BES23-15 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-16 | BES23-16 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-17 | BES23-17 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-18 | BES23-18 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-19 | BES23-19 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-20 | BES23-20 2.5' | Total/NA | Solid | 8021B | 65905 |
| 880-34990-A-8-A MB | Method Blank | Total/NA | Solid | 8021B | 65867 |
| MB 880-65905/5-A | Method Blank | Total/NA | Solid | 8021B | 65905 |
| LCS 880-65905/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 65905 |
| LCSD 880-65905/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 65905 |
| 880-35072-1 MS | BES23-01 0.5' | Total/NA | Solid | 8021B | 65905 |
| 880-35072-1 MSD | BES23-01 0.5' | Total/NA | Solid | 8021B | 65905 |

Prep Batch: 65867

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------|-----------|--------|--------|------------|
| 880-34990-A-8-A MB | Method Blank | Total/NA | Solid | 5030B | |

Prep Batch: 65905

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 880-35072-1 | BES23-01 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-2 | BES23-02 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-3 | BES23-03 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-4 | BES23-04 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-5 | BES23-05 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-6 | BES23-06 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-7 | BES23-07 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-8 | BES23-08 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-9 | BES23-09 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-10 | BES23-10 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-11 | BES23-11 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-12 | BES23-12 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-13 | BES23-13 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-14 | BES23-14 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-15 | BES23-15 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-16 | BES23-16 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-17 | BES23-17 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-18 | BES23-18 0.5' | Total/NA | Solid | 5035 | |

Eurofins Midland

QC Association Summary

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

GC VOA (Continued)**Prep Batch: 65905 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-35072-19 | BES23-19 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-20 | BES23-20 2.5' | Total/NA | Solid | 5035 | |
| MB 880-65905/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-65905/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-65905/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-35072-1 MS | BES23-01 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-1 MSD | BES23-01 0.5' | Total/NA | Solid | 5035 | |

Analysis Batch: 66027

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-35072-21 | WES23-01 0.5' | Total/NA | Solid | 8021B | 66035 |
| 880-35072-22 | WES23-02 0.5' | Total/NA | Solid | 8021B | 66035 |
| 880-35072-23 | WES23-03 0.5' | Total/NA | Solid | 8021B | 66035 |
| 880-35072-24 | WES23-04 2.5' | Total/NA | Solid | 8021B | 66035 |
| MB 880-66035/5-A | Method Blank | Total/NA | Solid | 8021B | 66035 |
| LCS 880-66035/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 66035 |
| LCSD 880-66035/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 66035 |
| 880-35134-A-4-D MS | Matrix Spike | Total/NA | Solid | 8021B | 66035 |
| 880-35134-A-4-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 66035 |

Prep Batch: 66035

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-35072-21 | WES23-01 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-22 | WES23-02 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-23 | WES23-03 0.5' | Total/NA | Solid | 5035 | |
| 880-35072-24 | WES23-04 2.5' | Total/NA | Solid | 5035 | |
| MB 880-66035/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-66035/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-66035/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-35134-A-4-D MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-35134-A-4-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 66095

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-35072-1 | BES23-01 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-2 | BES23-02 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-3 | BES23-03 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-4 | BES23-04 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-5 | BES23-05 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-6 | BES23-06 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-7 | BES23-07 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-8 | BES23-08 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-9 | BES23-09 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-10 | BES23-10 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-11 | BES23-11 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-12 | BES23-12 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-13 | BES23-13 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-14 | BES23-14 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-15 | BES23-15 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-16 | BES23-16 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-17 | BES23-17 0.5' | Total/NA | Solid | Total BTEX | |

Eurofins Midland

QC Association Summary

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

GC VOA (Continued)**Analysis Batch: 66095 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-35072-18 | BES23-18 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-19 | BES23-19 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-20 | BES23-20 2.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-21 | WES23-01 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-22 | WES23-02 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-23 | WES23-03 0.5' | Total/NA | Solid | Total BTEX | |
| 880-35072-24 | WES23-04 2.5' | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Analysis Batch: 65852**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-35072-1 | BES23-01 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-2 | BES23-02 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-3 | BES23-03 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-4 | BES23-04 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-5 | BES23-05 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-6 | BES23-06 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-7 | BES23-07 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-8 | BES23-08 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-9 | BES23-09 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-10 | BES23-10 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-11 | BES23-11 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-12 | BES23-12 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-13 | BES23-13 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-14 | BES23-14 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-15 | BES23-15 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-16 | BES23-16 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-17 | BES23-17 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-18 | BES23-18 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-19 | BES23-19 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-20 | BES23-20 2.5' | Total/NA | Solid | 8015B NM | 65869 |
| MB 880-65869/1-A | Method Blank | Total/NA | Solid | 8015B NM | 65869 |
| LCS 880-65869/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 65869 |
| LCSD 880-65869/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-1 MS | BES23-01 0.5' | Total/NA | Solid | 8015B NM | 65869 |
| 880-35072-1 MSD | BES23-01 0.5' | Total/NA | Solid | 8015B NM | 65869 |

Analysis Batch: 65857

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-35072-21 | WES23-01 0.5' | Total/NA | Solid | 8015B NM | 65868 |
| 880-35072-22 | WES23-02 0.5' | Total/NA | Solid | 8015B NM | 65868 |
| 880-35072-23 | WES23-03 0.5' | Total/NA | Solid | 8015B NM | 65868 |
| 880-35072-24 | WES23-04 2.5' | Total/NA | Solid | 8015B NM | 65868 |
| MB 880-65868/1-A | Method Blank | Total/NA | Solid | 8015B NM | 65868 |
| LCS 880-65868/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 65868 |
| LCSD 880-65868/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 65868 |
| 880-34966-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015B NM | 65868 |
| 880-34966-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 65868 |

Eurofins Midland

QC Association Summary

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

GC Semi VOA**Prep Batch: 65868**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 880-35072-21 | WES23-01 0.5' | Total/NA | Solid | 8015NM Prep | 1 |
| 880-35072-22 | WES23-02 0.5' | Total/NA | Solid | 8015NM Prep | 2 |
| 880-35072-23 | WES23-03 0.5' | Total/NA | Solid | 8015NM Prep | 3 |
| 880-35072-24 | WES23-04 2.5' | Total/NA | Solid | 8015NM Prep | 4 |
| MB 880-65868/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | 5 |
| LCS 880-65868/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | 6 |
| LCSD 880-65868/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | 7 |
| 880-34966-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | 8 |
| 880-34966-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | 9 |

Prep Batch: 65869

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-35072-1 | BES23-01 0.5' | Total/NA | Solid | 8015NM Prep | 10 |
| 880-35072-2 | BES23-02 0.5' | Total/NA | Solid | 8015NM Prep | 11 |
| 880-35072-3 | BES23-03 0.5' | Total/NA | Solid | 8015NM Prep | 12 |
| 880-35072-4 | BES23-04 0.5' | Total/NA | Solid | 8015NM Prep | 13 |
| 880-35072-5 | BES23-05 0.5' | Total/NA | Solid | 8015NM Prep | 14 |
| 880-35072-6 | BES23-06 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-7 | BES23-07 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-8 | BES23-08 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-9 | BES23-09 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-10 | BES23-10 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-11 | BES23-11 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-12 | BES23-12 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-13 | BES23-13 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-14 | BES23-14 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-15 | BES23-15 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-16 | BES23-16 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-17 | BES23-17 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-18 | BES23-18 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-19 | BES23-19 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-20 | BES23-20 2.5' | Total/NA | Solid | 8015NM Prep | |
| MB 880-65869/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-65869/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-65869/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-35072-1 MS | BES23-01 0.5' | Total/NA | Solid | 8015NM Prep | |
| 880-35072-1 MSD | BES23-01 0.5' | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 65977

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-35072-1 | BES23-01 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-2 | BES23-02 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-3 | BES23-03 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-4 | BES23-04 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-5 | BES23-05 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-6 | BES23-06 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-7 | BES23-07 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-8 | BES23-08 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-9 | BES23-09 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-10 | BES23-10 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-11 | BES23-11 0.5' | Total/NA | Solid | 8015 NM | |

Eurofins Midland

QC Association Summary

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

GC Semi VOA (Continued)**Analysis Batch: 65977 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-35072-12 | BES23-12 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-13 | BES23-13 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-14 | BES23-14 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-15 | BES23-15 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-16 | BES23-16 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-17 | BES23-17 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-18 | BES23-18 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-19 | BES23-19 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-20 | BES23-20 2.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-21 | WES23-01 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-22 | WES23-02 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-23 | WES23-03 0.5' | Total/NA | Solid | 8015 NM | |
| 880-35072-24 | WES23-04 2.5' | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 65885**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-35072-17 | BES23-17 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-18 | BES23-18 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-19 | BES23-19 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-20 | BES23-20 2.5' | Soluble | Solid | DI Leach | |
| 880-35072-21 | WES23-01 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-22 | WES23-02 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-23 | WES23-03 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-24 | WES23-04 2.5' | Soluble | Solid | DI Leach | |
| MB 880-65885/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-65885/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-65885/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-35073-A-2-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-35073-A-2-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Leach Batch: 65886

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|----------|------------|
| 880-35072-1 | BES23-01 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-2 | BES23-02 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-3 | BES23-03 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-4 | BES23-04 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-5 | BES23-05 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-6 | BES23-06 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-7 | BES23-07 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-8 | BES23-08 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-9 | BES23-09 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-10 | BES23-10 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-11 | BES23-11 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-12 | BES23-12 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-13 | BES23-13 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-14 | BES23-14 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-15 | BES23-15 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-16 | BES23-16 0.5' | Soluble | Solid | DI Leach | |
| MB 880-65886/1-A | Method Blank | Soluble | Solid | DI Leach | |

Eurofins Midland

QC Association Summary

Client: Vertex
 Project/Site: Mis Amigos

Job ID: 880-35072-1
 SDG: 23E-05219

HPLC/IC (Continued)**Leach Batch: 65886 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| LCS 880-65886/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-65886/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-35072-7 MS | BES23-07 0.5' | Soluble | Solid | DI Leach | |
| 880-35072-7 MSD | BES23-07 0.5' | Soluble | Solid | DI Leach | |

Analysis Batch: 65984

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-35072-17 | BES23-17 0.5' | Soluble | Solid | 300.0 | 65885 |
| 880-35072-18 | BES23-18 0.5' | Soluble | Solid | 300.0 | 65885 |
| 880-35072-19 | BES23-19 0.5' | Soluble | Solid | 300.0 | 65885 |
| 880-35072-20 | BES23-20 2.5' | Soluble | Solid | 300.0 | 65885 |
| 880-35072-21 | WES23-01 0.5' | Soluble | Solid | 300.0 | 65885 |
| 880-35072-22 | WES23-02 0.5' | Soluble | Solid | 300.0 | 65885 |
| 880-35072-23 | WES23-03 0.5' | Soluble | Solid | 300.0 | 65885 |
| 880-35072-24 | WES23-04 2.5' | Soluble | Solid | 300.0 | 65885 |
| MB 880-65885/1-A | Method Blank | Soluble | Solid | 300.0 | 65885 |
| LCS 880-65885/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 65885 |
| LCSD 880-65885/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 65885 |
| 880-35073-A-2-B MS | Matrix Spike | Soluble | Solid | 300.0 | 65885 |
| 880-35073-A-2-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 65885 |

Analysis Batch: 65985

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-35072-1 | BES23-01 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-2 | BES23-02 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-3 | BES23-03 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-4 | BES23-04 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-5 | BES23-05 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-6 | BES23-06 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-7 | BES23-07 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-8 | BES23-08 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-9 | BES23-09 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-10 | BES23-10 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-11 | BES23-11 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-12 | BES23-12 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-13 | BES23-13 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-14 | BES23-14 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-15 | BES23-15 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-16 | BES23-16 0.5' | Soluble | Solid | 300.0 | 65886 |
| MB 880-65886/1-A | Method Blank | Soluble | Solid | 300.0 | 65886 |
| LCS 880-65886/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 65886 |
| LCSD 880-65886/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 65886 |
| 880-35072-7 MS | BES23-07 0.5' | Soluble | Solid | 300.0 | 65886 |
| 880-35072-7 MSD | BES23-07 0.5' | Soluble | Solid | 300.0 | 65886 |

Lab Chronicle

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Client Sample ID: BES23-01 0.5'**Lab Sample ID: 880-35072-1**

Matrix: Solid

Date Collected: 10/27/23 09:00

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 10/31/23 23:40 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 10/31/23 23:40 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 14:48 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.10 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 14:48 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/03/23 23:54 | CH | EET MID |

Client Sample ID: BES23-02 0.5'**Lab Sample ID: 880-35072-2**

Matrix: Solid

Date Collected: 10/27/23 09:05

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 00:00 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 00:00 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 16:19 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.07 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 16:19 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.00 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 00:13 | CH | EET MID |

Client Sample ID: BES23-03 0.5'**Lab Sample ID: 880-35072-3**

Matrix: Solid

Date Collected: 10/27/23 09:10

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 00:21 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 00:21 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 16:41 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 16:41 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 00:20 | CH | EET MID |

Client Sample ID: BES23-04 0.5'**Lab Sample ID: 880-35072-4**

Matrix: Solid

Date Collected: 10/27/23 09:15

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 00:42 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 00:42 | SM | EET MID |

Eurofins Midland

Lab Chronicle

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-04 0.5'**Lab Sample ID: 880-35072-4**

Matrix: Solid

Date Collected: 10/27/23 09:15
Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 17:02 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.08 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 17:02 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 00:27 | CH | EET MID |

Client Sample ID: BES23-05 0.5'**Lab Sample ID: 880-35072-5**

Matrix: Solid

Date Collected: 10/27/23 09:20
Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 01:02 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 01:02 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 17:25 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.91 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 17:25 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 00:33 | CH | EET MID |

Client Sample ID: BES23-06 0.5'**Lab Sample ID: 880-35072-6**

Matrix: Solid

Date Collected: 10/27/23 09:25
Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 01:23 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 01:23 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 17:47 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.95 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 17:47 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 00:40 | CH | EET MID |

Client Sample ID: BES23-07 0.5'**Lab Sample ID: 880-35072-7**

Matrix: Solid

Date Collected: 10/27/23 09:30
Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 01:43 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 01:43 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 18:08 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 18:08 | SM | EET MID |

Eurofins Midland

Lab Chronicle

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Client Sample ID: BES23-07 0.5'**Lab Sample ID: 880-35072-7**

Matrix: Solid

Date Collected: 10/27/23 09:30

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble | Leach | DI Leach | | | 5.00 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 00:46 | CH | EET MID |

Client Sample ID: BES23-08 0.5'**Lab Sample ID: 880-35072-8**

Matrix: Solid

Date Collected: 10/27/23 09:35

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 02:04 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 02:04 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 18:31 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.09 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 18:31 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.00 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 01:06 | CH | EET MID |

Client Sample ID: BES23-09 0.5'**Lab Sample ID: 880-35072-9**

Matrix: Solid

Date Collected: 10/27/23 09:40

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 02:25 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 02:25 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 18:53 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.92 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 18:53 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 01:13 | CH | EET MID |

Client Sample ID: BES23-10 0.5'**Lab Sample ID: 880-35072-10**

Matrix: Solid

Date Collected: 10/27/23 09:45

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 02:45 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 02:45 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 19:15 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.96 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 19:15 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 01:33 | CH | EET MID |

Eurofins Midland

Lab Chronicle

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: BES23-11 0.5'

Date Collected: 10/27/23 09:50

Date Received: 10/31/23 11:33

Lab Sample ID: 880-35072-11

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 04:09 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 04:09 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 19:59 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 19:59 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 01:39 | CH | EET MID |

Client Sample ID: BES23-12 0.5'

Date Collected: 10/27/23 09:55

Date Received: 10/31/23 11:33

Lab Sample ID: 880-35072-12

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 04:30 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 04:30 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 20:22 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.09 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 20:22 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 01:46 | CH | EET MID |

Client Sample ID: BES23-13 0.5'

Date Collected: 10/27/23 10:00

Date Received: 10/31/23 11:33

Lab Sample ID: 880-35072-13

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 04:50 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 04:50 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 20:45 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.97 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 20:45 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 01:53 | CH | EET MID |

Client Sample ID: BES23-14 0.5'

Date Collected: 10/27/23 10:05

Date Received: 10/31/23 11:33

Lab Sample ID: 880-35072-14

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 05:11 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 05:11 | SM | EET MID |

Eurofins Midland

Lab Chronicle

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Client Sample ID: BES23-14 0.5'**Lab Sample ID: 880-35072-14**

Matrix: Solid

Date Collected: 10/27/23 10:05

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 21:08 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.95 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 21:08 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.00 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 01:59 | CH | EET MID |

Client Sample ID: BES23-15 0.5'**Lab Sample ID: 880-35072-15**

Matrix: Solid

Date Collected: 10/27/23 10:10

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 05:31 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 05:31 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 21:31 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 21:31 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 02:06 | CH | EET MID |

Client Sample ID: BES23-16 0.5'**Lab Sample ID: 880-35072-16**

Matrix: Solid

Date Collected: 10/27/23 10:15

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 05:52 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 05:52 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 21:53 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.10 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 21:53 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 65886 | 10/31/23 12:44 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65985 | 11/04/23 02:12 | CH | EET MID |

Client Sample ID: BES23-17 0.5'**Lab Sample ID: 880-35072-17**

Matrix: Solid

Date Collected: 10/27/23 10:20

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 06:12 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 06:12 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 22:16 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.10 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 22:16 | SM | EET MID |

Eurofins Midland

Lab Chronicle

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Client Sample ID: BES23-17 0.5'**Lab Sample ID: 880-35072-17****Matrix: Solid**

Date Collected: 10/27/23 10:20

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 65885 | 10/31/23 12:43 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65984 | 11/03/23 09:09 | CH | EET MID |

Client Sample ID: BES23-18 0.5'**Lab Sample ID: 880-35072-18****Matrix: Solid**

Date Collected: 10/27/23 10:25

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 06:33 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 06:33 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 22:39 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.92 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 22:39 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 65885 | 10/31/23 12:43 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65984 | 11/03/23 09:15 | CH | EET MID |

Client Sample ID: BES23-19 0.5'**Lab Sample ID: 880-35072-19****Matrix: Solid**

Date Collected: 10/27/23 10:30

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 06:53 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 06:53 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 23:02 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.98 g | 10 mL | 65869 | 10/31/23 12:00 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 23:02 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 65885 | 10/31/23 12:43 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65984 | 11/03/23 09:20 | CH | EET MID |

Client Sample ID: BES23-20 2.5'**Lab Sample ID: 880-35072-20****Matrix: Solid**

Date Collected: 10/27/23 10:35

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 65905 | 10/31/23 13:33 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 65862 | 11/01/23 07:14 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/01/23 07:14 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 23:25 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 65869 | 10/31/23 12:06 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65852 | 10/31/23 23:25 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 65885 | 10/31/23 12:43 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65984 | 11/03/23 09:25 | CH | EET MID |

Eurofins Midland

Lab Chronicle

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35072-1
SDG: 23E-05219

Client Sample ID: WES23-01 0.5'

Date Collected: 10/27/23 10:40

Date Received: 10/31/23 11:33

Lab Sample ID: 880-35072-21

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 66035 | 11/02/23 08:43 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 66027 | 11/02/23 18:55 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/02/23 18:55 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 22:17 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.91 g | 10 mL | 65868 | 10/31/23 11:56 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65857 | 10/31/23 22:17 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 65885 | 10/31/23 12:43 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65984 | 11/03/23 09:41 | CH | EET MID |

Client Sample ID: WES23-02 0.5'

Date Collected: 10/27/23 10:45

Date Received: 10/31/23 11:33

Lab Sample ID: 880-35072-22

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 66035 | 11/02/23 08:43 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 66027 | 11/02/23 19:15 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/02/23 19:15 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 22:43 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 65868 | 10/31/23 11:56 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65857 | 10/31/23 22:43 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 65885 | 10/31/23 12:43 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65984 | 11/03/23 09:46 | CH | EET MID |

Client Sample ID: WES23-03 0.5'

Date Collected: 10/27/23 10:50

Date Received: 10/31/23 11:33

Lab Sample ID: 880-35072-23

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 66035 | 11/02/23 08:43 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 66027 | 11/02/23 19:36 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/02/23 19:36 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 23:10 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 65868 | 10/31/23 11:56 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65857 | 10/31/23 23:10 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 65885 | 10/31/23 12:43 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65984 | 11/03/23 09:51 | CH | EET MID |

Client Sample ID: WES23-04 2.5'

Date Collected: 10/27/23 10:55

Date Received: 10/31/23 11:33

Lab Sample ID: 880-35072-24

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 66035 | 11/02/23 08:43 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 66027 | 11/02/23 19:56 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66095 | 11/02/23 19:56 | SM | EET MID |

Eurofins Midland

Lab Chronicle

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Client Sample ID: WES23-04 2.5'**Lab Sample ID: 880-35072-24**

Date Collected: 10/27/23 10:55

Matrix: Solid

Date Received: 10/31/23 11:33

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 65977 | 10/31/23 23:37 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.07 g | 10 mL | 65868 | 10/31/23 11:56 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65857 | 10/31/23 23:37 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 65885 | 10/31/23 12:43 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 10 mL | 10 mL | 65984 | 11/03/23 09:56 | CH | EET MID |

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Eurofins Midland

Accreditation/Certification Summary

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-23-26 | 06-30-24 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |



Eurofins Midland

Method Summary

Client: Vertex
 Project/Site: Mis Amigos

Job ID: 880-35072-1
 SDG: 23E-05219

| Method | Method Description | Protocol | Laboratory |
|---------------|------------------------------------|-----------------|-------------------|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 300.0 | Anions, Ion Chromatography | EPA | EET MID |
| 5035 | Closed System Purge and Trap | SW846 | EET MID |
| 8015NM Prep | Microextraction | SW846 | EET MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | EET MID |

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Vertex

Job ID: 880-35072-1

Project/Site: Mis Amigos

SDG: 23E-05219

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth | |
|---------------|------------------|--------|----------------|----------------|-------|----|
| 880-35072-1 | BES23-01 0.5' | Solid | 10/27/23 09:00 | 10/31/23 11:33 | 5' | 1 |
| 880-35072-2 | BES23-02 0.5' | Solid | 10/27/23 09:05 | 10/31/23 11:33 | 5' | 2 |
| 880-35072-3 | BES23-03 0.5' | Solid | 10/27/23 09:10 | 10/31/23 11:33 | 5' | 3 |
| 880-35072-4 | BES23-04 0.5' | Solid | 10/27/23 09:15 | 10/31/23 11:33 | 5' | 4 |
| 880-35072-5 | BES23-05 0.5' | Solid | 10/27/23 09:20 | 10/31/23 11:33 | 5' | 5 |
| 880-35072-6 | BES23-06 0.5' | Solid | 10/27/23 09:25 | 10/31/23 11:33 | 5' | 6 |
| 880-35072-7 | BES23-07 0.5' | Solid | 10/27/23 09:30 | 10/31/23 11:33 | 5' | 7 |
| 880-35072-8 | BES23-08 0.5' | Solid | 10/27/23 09:35 | 10/31/23 11:33 | 5' | 8 |
| 880-35072-9 | BES23-09 0.5' | Solid | 10/27/23 09:40 | 10/31/23 11:33 | 5' | 9 |
| 880-35072-10 | BES23-10 0.5' | Solid | 10/27/23 09:45 | 10/31/23 11:33 | 5' | 10 |
| 880-35072-11 | BES23-11 0.5' | Solid | 10/27/23 09:50 | 10/31/23 11:33 | 5' | 11 |
| 880-35072-12 | BES23-12 0.5' | Solid | 10/27/23 09:55 | 10/31/23 11:33 | 5' | 12 |
| 880-35072-13 | BES23-13 0.5' | Solid | 10/27/23 10:00 | 10/31/23 11:33 | 5' | 13 |
| 880-35072-14 | BES23-14 0.5' | Solid | 10/27/23 10:05 | 10/31/23 11:33 | 5' | 14 |
| 880-35072-15 | BES23-15 0.5' | Solid | 10/27/23 10:10 | 10/31/23 11:33 | 5' | |
| 880-35072-16 | BES23-16 0.5' | Solid | 10/27/23 10:15 | 10/31/23 11:33 | 5' | |
| 880-35072-17 | BES23-17 0.5' | Solid | 10/27/23 10:20 | 10/31/23 11:33 | 5' | |
| 880-35072-18 | BES23-18 0.5' | Solid | 10/27/23 10:25 | 10/31/23 11:33 | 5' | |
| 880-35072-19 | BES23-19 0.5' | Solid | 10/27/23 10:30 | 10/31/23 11:33 | 5' | |
| 880-35072-20 | BES23-20 2.5' | Solid | 10/27/23 10:35 | 10/31/23 11:33 | 5' | |
| 880-35072-21 | WES23-01 0.5' | Solid | 10/27/23 10:40 | 10/31/23 11:33 | 5' | |
| 880-35072-22 | WES23-02 0.5' | Solid | 10/27/23 10:45 | 10/31/23 11:33 | 5' | |
| 880-35072-23 | WES23-03 0.5' | Solid | 10/27/23 10:50 | 10/31/23 11:33 | 5' | |
| 880-35072-24 | WES23-04 2.5' | Solid | 10/27/23 10:55 | 10/31/23 11:33 | 5' | |

1 2 3 4 5 6 7 8 9 10 11 12 13 14

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Environment Testing

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 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs NM (575) 392-7550 Carlsbad, NM (575) 988-3199

Work Order No: 355072Page 2 of 3

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| | | |
|------------------|------------------|------------------------|
| Project Manager: | | Bill to (if different) |
| Company Name: | | Company Name: |
| Address: | | Address: |
| City, State ZIP: | City, State ZIP: | |
| Phone: | Email: | |

| Project Name | Turn Around | ANALYSIS REQUEST | | | | | | | | | | Preservative Codes |
|--------------------------|---|---|-----|------------------------|-----|----|--|--|--|--|--|--------------------|
| Project Number: | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code: | | | | | | | | | | |
| Project Location: | Due Date: | | | | | | | | | | | |
| Sampler's Name: | Hunter Klein | TAT starts the day received by the lab, if received by 4:30pm | | | | | | | | | | |
| PO # | | | | | | | | | | | | |
| SAMPLE RECEIPT | Temp Blank: | Yes | No | Wet/Ice: | Yes | No | | | | | | |
| Samples Received Intact: | Yes | No | N/A | Thermometer ID: | | | | | | | | |
| Cooler/Custody Seals: | Yes | No | N/A | Correction Factor: | | | | | | | | |
| Sample Custody Seals: | Yes | No | N/A | Temperature Reading: | | | | | | | | |
| Total Containers: | | | | Corrected Temperature: | | | | | | | | |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab Comp | # of Cont | TPH | NM | BTEx | NM | CI | NM | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|-----|----|------|----|----|----|-----------------|
| BES23-11 0.5' Soil | | 10/17/23 | 9:50 | 0.55 | | | | | | | | | |
| BES23-12 0.5' | | | | 10:00 | | | | | | | | | |
| BES23-13 0.5' | | | | 10:05 | | | | | | | | | |
| BES23-14 0.5' | | | | 10:10 | | | | | | | | | |
| BES23-15 0.5' | | | | 10:15 | | | | | | | | | |
| BES23-16 0.5' | | | | 10:20 | | | | | | | | | |
| BES23-17 0.5' | | | | 10:25 | | | | | | | | | |
| BES23-18 0.5' | | | | 10:30 | | | | | | | | | |
| BES23-19 0.5' | | | | 10:35 | | | | | | | | | |
| BES23-20 2.5' | | | | 10:35 | | | | | | | | | |

| | | |
|--|------------------|--|
| Total 2007 / 6010 | 2008 / 6020: | 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn |
| Circle Method(s) and Metal(s) to be analyzed | TCLP / SPLP 6010 | 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 2451 / 7470 / 7471 |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples sent and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|-----------------------------|-------------------------|-----------|-----------------------------|-------------------------|-----------|
| | | 10/31/23 | | | |
| 3 | | 11/3/23 | | | |
| 5 | | | | | |

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Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Loc. 880
35072

11/6/2023

| | | |
|------------------|-------|------------------------|
| Project Manager: | | Bill to (if different) |
| Company Name: | | Company Name |
| Address: | | Address |
| City/State/ZIP: | | City/State/ZIP |
| Phone: | Email | |

| | | | | | |
|--------------------------------|---|--|--------------------------------------|-------------------------------|---|
| Work Order Commence Date _____ | | | | | |
| Program. | <input type="checkbox"/> US/T/PST | <input type="checkbox"/> PRP | <input type="checkbox"/> Brownfields | <input type="checkbox"/> RRC | <input type="checkbox"/> Superfund |
| State of Project: | | | | | |
| Reporting Deliverables | <input type="checkbox"/> Level II <input type="checkbox"/> EDD | <input type="checkbox"/> Level III <input type="checkbox"/> | <input type="checkbox"/> PST/UST | <input type="checkbox"/> TRRP | <input type="checkbox"/> Level IV <input type="checkbox"/> Other |

| | | |
|--|------------------|--|
| Total 2007/ 6010 | 2008 / 6030: | 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn |
| Circle Method(s) and Metal(s) to be analyzed | TCLP / SPLP 6010 | 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 2451 / 7470 / 7471 |

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Revised Date: 08/25/2020 Rev 30303

Login Sample Receipt Checklist

Client: Vertex

Job Number: 880-35072-1

SDG Number: 23E-05219

Login Number: 35072**List Source:** Eurofins Midland**List Number:** 1**Creator:** Rodriguez, Leticia

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | N/A | | 1 |
| Sample custody seals, if present, are intact. | N/A | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| Sample collection date/times are provided. | True | | |
| Appropriate sample containers are used. | True | | |
| Sample bottles are completely filled. | True | | |
| Sample Preservation Verified. | N/A | | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | | |



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 11/3/2023 6:28:14 PM

JOB DESCRIPTION

Mis Amigos
SDG NUMBER 23-E05219

JOB NUMBER

880-35156-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/15/2024 2:21:49 PM

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/3/2023 6:28:14 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Vertex
Project/Site: Mis Amigos

Laboratory Job ID: 880-35156-1
SDG: 23-E05219

Table of Contents

| | | |
|------------------------------|----|----|
| Cover Page | 1 | 3 |
| Table of Contents | 3 | 4 |
| Definitions/Glossary | 4 | 5 |
| Case Narrative | 5 | 6 |
| Client Sample Results | 7 | 6 |
| Surrogate Summary | 13 | 7 |
| QC Sample Results | 15 | 8 |
| QC Association Summary | 22 | 8 |
| Lab Chronicle | 26 | 9 |
| Certification Summary | 29 | 10 |
| Method Summary | 30 | 11 |
| Sample Summary | 31 | 11 |
| Chain of Custody | 32 | 12 |
| Receipt Checklists | 33 | 13 |
| | | 14 |

Definitions/Glossary

Client: Vertex

Job ID: 880-35156-1

Project/Site: Mis Amigos

SDG: 23-E05219

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

| | |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

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Case Narrative

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

Job ID: 880-35156-1

Laboratory: Eurofins Midland

Narrative

Job Narrative **880-35156-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/1/2023 1:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: WES23-05 0' (880-35156-1), WES23-06 0' (880-35156-2), WES23-07 0' (880-35156-3), WES23-21 0' (880-35156-4), WES23-22 0' (880-35156-5), WES23-23 0' (880-35156-6), WES23-24 0' (880-35156-7) and WES23-25 0' (880-35156-8).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66035 and 880-66069 and analytical batch 880-66027 was outside the upper control limits.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-66069 and analytical batch 880-66027 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: WES23-25 0' (880-35156-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65999 and analytical batch 880-65947 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: WES23-05 0' (880-35156-1), WES23-06 0' (880-35156-2), WES23-07 0' (880-35156-3), WES23-21 0' (880-35156-4), WES23-22 0' (880-35156-5) and (880-35139-A-28-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-65999 and analytical batch 880-65947 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-65947 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-65947/47).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-66046 and analytical batch 880-66022

Case Narrative

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

Job ID: 880-35156-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: WES23-23 0' (880-35156-6), WES23-24 0' (880-35156-7), (880-35156-A-6-D MS) and (880-35156-A-6-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-66046 and analytical batch 880-66022 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

Client Sample ID: WES23-05 0-0.5'

Date Collected: 10/30/23 10:00
Date Received: 11/01/23 13:14

Lab Sample ID: 880-35156-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|---------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 12:07 | 11/03/23 02:38 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 12:07 | 11/03/23 02:38 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 12:07 | 11/03/23 02:38 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 11/02/23 12:07 | 11/03/23 02:38 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 12:07 | 11/03/23 02:38 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 11/02/23 12:07 | 11/03/23 02:38 | 1 |
| Surrogate | | | | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99 | | | 70 - 130 | | 11/02/23 12:07 | 11/03/23 02:38 | 1 |
| 1,4-Difluorobenzene (Surr) | 111 | | | 70 - 130 | | 11/02/23 12:07 | 11/03/23 02:38 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 11/03/23 02:38 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.2 | U | 50.2 | mg/Kg | | | 11/02/23 03:57 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|----------|---------------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2 | U | 50.2 | mg/Kg | | 11/01/23 14:52 | 11/02/23 03:57 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.2 | U | 50.2 | mg/Kg | | 11/01/23 14:52 | 11/02/23 03:57 | 1 |
| Oil Range Organics (Over C28-C36) | <50.2 | U | 50.2 | mg/Kg | | 11/01/23 14:52 | 11/02/23 03:57 | 1 |
| Surrogate | | | | Limits | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 142 | S1+ | 70 - 130 | | | 11/01/23 14:52 | 11/02/23 03:57 | 1 |
| o-Terphenyl | 161 | S1+ | 70 - 130 | | | 11/01/23 14:52 | 11/02/23 03:57 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 57.8 | | 5.00 | mg/Kg | | | 11/02/23 17:11 | 1 |

Client Sample ID: WES23-06 0-0.5'

Date Collected: 10/30/23 10:05
Date Received: 11/01/23 13:14

Lab Sample ID: 880-35156-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|----------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/02/23 08:57 | 11/02/23 15:51 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/02/23 08:57 | 11/02/23 15:51 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/02/23 08:57 | 11/02/23 15:51 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/02/23 08:57 | 11/02/23 15:51 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/02/23 08:57 | 11/02/23 15:51 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/02/23 08:57 | 11/02/23 15:51 | 1 |
| Surrogate | | | | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 88 | | 70 - 130 | | | 11/02/23 08:57 | 11/02/23 15:51 | 1 |
| 1,4-Difluorobenzene (Surr) | 86 | | 70 - 130 | | | 11/02/23 08:57 | 11/02/23 15:51 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

Client Sample ID: WES23-06 0-0.5'**Lab Sample ID: 880-35156-2**

Date Collected: 10/30/23 10:05
Date Received: 11/01/23 13:14

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/02/23 15:51 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.1 | U | 50.1 | mg/Kg | | | 11/02/23 04:18 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1 | U | 50.1 | mg/Kg | | 11/01/23 14:52 | 11/02/23 04:18 | 1 |

Diesel Range Organics (Over C10-C28)

Oil Range Organics (Over C28-C36)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 146 | S1+ | 70 - 130 | 11/01/23 14:52 | 11/02/23 04:18 | 1 |
| <i>o</i> -Terphenyl | 170 | S1+ | 70 - 130 | 11/01/23 14:52 | 11/02/23 04:18 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 80.9 | | 4.99 | mg/Kg | | | 11/02/23 17:26 | 1 |

Client Sample ID: WES23-07 0-0.5'**Lab Sample ID: 880-35156-3**

Date Collected: 10/30/23 10:10
Date Received: 11/01/23 13:14

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:12 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:12 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:12 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:12 | 1 |
| <i>o</i> -Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:12 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:12 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | 11/02/23 08:57 | 11/02/23 16:12 | 1 |
| 1,4-Difluorobenzene (Surr) | 81 | | 70 - 130 | 11/02/23 08:57 | 11/02/23 16:12 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/02/23 16:12 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5 | U | 50.5 | mg/Kg | | | 11/02/23 04:40 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5 | U | 50.5 | mg/Kg | | 11/01/23 14:52 | 11/02/23 04:40 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.5 | U | 50.5 | mg/Kg | | 11/01/23 14:52 | 11/02/23 04:40 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

Client Sample ID: WES23-07 0-0.5'**Lab Sample ID: 880-35156-3**

Date Collected: 10/30/23 10:10
Date Received: 11/01/23 13:14

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <50.5 | U | 50.5 | mg/Kg | | 11/01/23 14:52 | 11/02/23 04:40 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 122 | | 70 - 130 | | | 11/01/23 14:52 | 11/02/23 04:40 | 1 |
| o-Terphenyl | 142 | S1+ | 70 - 130 | | | 11/01/23 14:52 | 11/02/23 04:40 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 72.0 | | 5.01 | mg/Kg | | | 11/02/23 17:32 | 1 |

Client Sample ID: BES23-21 0.5'**Lab Sample ID: 880-35156-4**

Date Collected: 10/30/23 10:15

Matrix: Solid

Date Received: 11/01/23 13:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:32 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:32 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:32 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:32 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:32 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:32 | 1 |
| Surrogate | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94 | | 70 - 130 | | | 11/02/23 08:57 | 11/02/23 16:32 | 1 |
| 1,4-Difluorobenzene (Surr) | 78 | | 70 - 130 | | | 11/02/23 08:57 | 11/02/23 16:32 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 11/02/23 16:32 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/02/23 05:01 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 11/01/23 14:52 | 11/02/23 05:01 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/01/23 14:52 | 11/02/23 05:01 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/01/23 14:52 | 11/02/23 05:01 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 147 | S1+ | 70 - 130 | | | 11/01/23 14:52 | 11/02/23 05:01 | 1 |
| o-Terphenyl | 170 | S1+ | 70 - 130 | | | 11/01/23 14:52 | 11/02/23 05:01 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 222 | | 5.03 | mg/Kg | | | 11/02/23 17:37 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

Client Sample ID: BES23-22 0.5'
Date Collected: 10/30/23 10:20
Date Received: 11/01/23 13:14

Lab Sample ID: 880-35156-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:53 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:53 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:53 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:53 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:53 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 11/02/23 08:57 | 11/02/23 16:53 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 79 | | | 70 - 130 | | 11/02/23 08:57 | 11/02/23 16:53 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | | 70 - 130 | | 11/02/23 08:57 | 11/02/23 16:53 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 11/02/23 16:53 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 97.7 | | 49.6 | mg/Kg | | | 11/02/23 05:22 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6 | U | 49.6 | mg/Kg | | 11/01/23 14:52 | 11/02/23 05:22 | 1 |
| Diesel Range Organics (Over C10-C28) | 97.7 | | 49.6 | mg/Kg | | 11/01/23 14:52 | 11/02/23 05:22 | 1 |
| Oil Range Organics (Over C28-C36) | <49.6 | U | 49.6 | mg/Kg | | 11/01/23 14:52 | 11/02/23 05:22 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | 139 | S1+ | 70 - 130 | | | 11/01/23 14:52 | 11/02/23 05:22 | 1 |
| o-Terphenyl | 162 | S1+ | 70 - 130 | | | 11/01/23 14:52 | 11/02/23 05:22 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 160 | | 5.01 | mg/Kg | | | 11/02/23 17:42 | 1 |

Client Sample ID: BES23-23 0.5'**Lab Sample ID: 880-35156-6**

Date Collected: 10/30/23 10:25
Date Received: 11/01/23 13:14

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:13 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:13 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:13 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:13 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:13 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:13 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 87 | | | 70 - 130 | | 11/02/23 08:57 | 11/02/23 17:13 | 1 |
| 1,4-Difluorobenzene (Surr) | 81 | | | 70 - 130 | | 11/02/23 08:57 | 11/02/23 17:13 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

Client Sample ID: BES23-23 0.5'**Lab Sample ID: 880-35156-6**

Matrix: Solid

Date Collected: 10/30/23 10:25
Date Received: 11/01/23 13:14

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 11/02/23 17:13 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 987 | | 50.2 | mg/Kg | | | 11/02/23 13:16 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2 | U | 50.2 | mg/Kg | | 11/02/23 11:05 | 11/02/23 13:16 | 1 |
| Diesel Range Organics (Over C10-C28) | 907 | F1 | 50.2 | mg/Kg | | 11/02/23 11:05 | 11/02/23 13:16 | 1 |
| Oil Range Organics (Over C28-C36) | 80.4 | | 50.2 | mg/Kg | | 11/02/23 11:05 | 11/02/23 13:16 | 1 |

Surrogate

| | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|--|----------------|----------------|---------|
| 1-Chlorooctane | 127 | | 70 - 130 | | 11/02/23 11:05 | 11/02/23 13:16 | 1 |
| o-Terphenyl | 136 | S1+ | 70 - 130 | | 11/02/23 11:05 | 11/02/23 13:16 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 535 | | 4.99 | mg/Kg | | | 11/02/23 17:58 | 1 |

Client Sample ID: BES23-24 0.5'**Lab Sample ID: 880-35156-7**

Matrix: Solid

Date Collected: 10/30/23 10:30

Date Received: 11/01/23 13:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:34 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:34 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:34 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:34 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:34 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:34 | 1 |

Surrogate

| | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|--|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 | | 11/02/23 08:57 | 11/02/23 17:34 | 1 |
| 1,4-Difluorobenzene (Surr) | 78 | | 70 - 130 | | 11/02/23 08:57 | 11/02/23 17:34 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/02/23 17:34 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 149 | | 50.3 | mg/Kg | | | 11/02/23 14:21 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.3 | U | 50.3 | mg/Kg | | 11/02/23 11:05 | 11/02/23 14:21 | 1 |

Eurofins Midland

Client Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

Client Sample ID: BES23-24 0.5'
Date Collected: 10/30/23 10:30
Date Received: 11/01/23 13:14

Lab Sample ID: 880-35156-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics (Over C10-C28) | 149 | | 50.3 | mg/Kg | | 11/02/23 11:05 | 11/02/23 14:21 | 1 |
| Oil Range Organics (Over C28-C36) | <50.3 | U | 50.3 | mg/Kg | | 11/02/23 11:05 | 11/02/23 14:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 121 | | 70 - 130 | | | 11/02/23 11:05 | 11/02/23 14:21 | 1 |
| o-Terphenyl | 136 | S1+ | 70 - 130 | | | 11/02/23 11:05 | 11/02/23 14:21 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 76.0 | | 4.98 | mg/Kg | | | 11/02/23 18:13 | 1 |

Client Sample ID: BES23-25 0.5'
Date Collected: 10/30/23 10:35
Date Received: 11/01/23 13:14

Lab Sample ID: 880-35156-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:54 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:54 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:54 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:54 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:54 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/02/23 08:57 | 11/02/23 17:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 | | | 11/02/23 08:57 | 11/02/23 17:54 | 1 |
| 1,4-Difluorobenzene (Surr) | 49 | S1- | 70 - 130 | | | 11/02/23 08:57 | 11/02/23 17:54 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/02/23 17:54 | 1 |

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 116 | | 50.4 | mg/Kg | | | 11/02/23 14:43 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4 | U | 50.4 | mg/Kg | | 11/02/23 11:05 | 11/02/23 14:43 | 1 |
| Diesel Range Organics (Over C10-C28) | 116 | | 50.4 | mg/Kg | | 11/02/23 11:05 | 11/02/23 14:43 | 1 |
| Oil Range Organics (Over C28-C36) | <50.4 | U | 50.4 | mg/Kg | | 11/02/23 11:05 | 11/02/23 14:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 116 | | 70 - 130 | | | 11/02/23 11:05 | 11/02/23 14:43 | 1 |
| o-Terphenyl | 129 | | 70 - 130 | | | 11/02/23 11:05 | 11/02/23 14:43 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 750 | | 4.99 | mg/Kg | | | 11/02/23 18:03 | 1 |

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Surrogate Summary

Client: Vertex

Job ID: 880-35156-1

Project/Site: Mis Amigos

SDG: 23-E05219

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|----------------------|-------------------------|---|---------------------------|--|
| | | BFB1 (70-130) | DFBZ1 (70-130) | |
| 880-35135-A-11-C MS | Matrix Spike | 100 | 108 | |
| 880-35135-A-11-D MSD | Matrix Spike Duplicate | 92 | 118 | |
| 880-35156-1 | WES23-05 0' | 99 | 111 | |
| 880-35156-2 | WES23-06 0' | 88 | 86 | |
| 880-35156-3 | WES23-07 0' | 89 | 81 | |
| 880-35156-4 | WES23-21 0' | 94 | 78 | |
| 880-35156-5 | WES23-22 0' | 79 | 96 | |
| 880-35156-6 | WES23-23 0' | 87 | 81 | |
| 880-35156-7 | WES23-24 0' | 87 | 78 | |
| 880-35156-8 | WES23-25 0' | 91 | 49 S1- | |
| 880-35178-A-1-B MS | Matrix Spike | 113 | 120 | |
| 880-35178-A-1-C MSD | Matrix Spike Duplicate | 114 | 115 | |
| LCS 880-66036/1-A | Lab Control Sample | 115 | 116 | |
| LCS 880-66069/1-A | Lab Control Sample | 94 | 104 | |
| LCSD 880-66036/2-A | Lab Control Sample Dup | 105 | 120 | |
| LCSD 880-66069/2-A | Lab Control Sample Dup | 99 | 111 | |
| MB 880-66035/5-A | Method Blank | 110 | 144 S1+ | |
| MB 880-66036/5-A | Method Blank | 70 | 101 | |
| MB 880-66069/5-A | Method Blank | 103 | 145 S1+ | |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|----------------------|-------------------------|---|---------------------------|--|
| | | 1CO1 (70-130) | OTPH1 (70-130) | |
| 880-35139-A-28-C MS | Matrix Spike | 125 | 128 | |
| 880-35139-A-28-D MSD | Matrix Spike Duplicate | 146 S1+ | 146 S1+ | |
| 880-35156-1 | WES23-05 0' | 142 S1+ | 161 S1+ | |
| 880-35156-2 | WES23-06 0' | 146 S1+ | 170 S1+ | |
| 880-35156-3 | WES23-07 0' | 122 | 142 S1+ | |
| 880-35156-4 | WES23-21 0' | 147 S1+ | 170 S1+ | |
| 880-35156-5 | WES23-22 0' | 139 S1+ | 162 S1+ | |
| 880-35156-6 | WES23-23 0' | 127 | 136 S1+ | |
| 880-35156-6 MS | WES23-23 0' | 143 S1+ | 131 S1+ | |
| 880-35156-6 MSD | WES23-23 0' | 138 S1+ | 130 | |
| 880-35156-7 | WES23-24 0' | 121 | 136 S1+ | |
| 880-35156-8 | WES23-25 0' | 116 | 129 | |
| LCS 880-65999/2-A | Lab Control Sample | 77 | 95 | |
| LCS 880-66046/2-A | Lab Control Sample | 79 | 96 | |
| LCSD 880-65999/3-A | Lab Control Sample Dup | 73 | 89 | |
| LCSD 880-66046/3-A | Lab Control Sample Dup | 73 | 89 | |
| MB 880-65999/1-A | Method Blank | 249 S1+ | 291 S1+ | |
| MB 880-66046/1-A | Method Blank | 188 S1+ | 219 S1+ | |

Surrogate Legend

1CO = 1-Chlorooctane

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QC Sample Results

Client: Vertex

Job ID: 880-35156-1

Project/Site: Mis Amigos

SDG: 23-E05219

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-66035/5-A****Matrix: Solid****Analysis Batch: 66027****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 66035**

| Analyte | MB | | MB | | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|---------|--------|----------|---|----------------|----------------|---------|
| | Result | Qualifier | RL | Limits | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |
| Surrogate | MB | | MB | | Limits | D | Prepared | Analyzed | Dil Fac |
| | %Recovery | Qualifier | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 110 | | | | 70 - 130 | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |
| 1,4-Difluorobenzene (Surr) | 144 | S1+ | | | 70 - 130 | | 11/02/23 08:43 | 11/02/23 11:29 | 1 |

Lab Sample ID: MB 880-66036/5-A**Matrix: Solid****Analysis Batch: 66026****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 66036**

| Analyte | MB | | MB | | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|---------|--------|----------|---|----------------|----------------|---------|
| | Result | Qualifier | RL | Limits | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/02/23 08:57 | 11/02/23 11:02 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/02/23 08:57 | 11/02/23 11:02 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/02/23 08:57 | 11/02/23 11:02 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 11/02/23 08:57 | 11/02/23 11:02 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/02/23 08:57 | 11/02/23 11:02 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 11/02/23 08:57 | 11/02/23 11:02 | 1 |
| Surrogate | MB | | MB | | Limits | D | Prepared | Analyzed | Dil Fac |
| | %Recovery | Qualifier | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 70 | | | | 70 - 130 | | 11/02/23 08:57 | 11/02/23 11:02 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | | | 70 - 130 | | 11/02/23 08:57 | 11/02/23 11:02 | 1 |

Lab Sample ID: LCS 880-66036/1-A**Matrix: Solid****Analysis Batch: 66026****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 66036**

| Analyte | Spike | | LCS | | Unit | D | %Rec | | RPD |
|-----------------------------|-----------|-----------|----------|-------|----------|---|------|----------|-----|
| | Added | Result | Qualifer | Unit | | | %Rec | Limits | |
| Benzene | 0.100 | 0.09718 | | mg/Kg | | | 97 | 70 - 130 | |
| Toluene | 0.100 | 0.09307 | | mg/Kg | | | 93 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09350 | | mg/Kg | | | 94 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.2030 | | mg/Kg | | | 102 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09739 | | mg/Kg | | | 97 | 70 - 130 | |
| Surrogate | LCS | | LCS | | Limits | D | %Rec | | RPD |
| | %Recovery | Qualifier | | | | | %Rec | Limits | |
| 4-Bromofluorobenzene (Surr) | 115 | | | | 70 - 130 | | | | |
| 1,4-Difluorobenzene (Surr) | 116 | | | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-66036/2-A**Matrix: Solid****Analysis Batch: 66026****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 66036**

| Analyte | Spike | | LCSD | | Unit | D | %Rec | | RPD |
|---------|-------|--------|----------|-------|------|---|------|----------|-----|
| | Added | Result | Qualifer | Unit | | | %Rec | Limits | |
| Benzene | 0.100 | 0.1036 | | mg/Kg | | | 104 | 70 - 130 | 6 |

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QC Sample Results

Client: Vertex

Job ID: 880-35156-1

Project/Site: Mis Amigos

SDG: 23-E05219

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: LCSD 880-66036/2-A****Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66026****Prep Batch: 66036**

| Analyte | | Spike | LCSD | LCSD | Unit | D | %Rec | Limits | RPD | RPD |
|---------------------|--|-------|---------|-----------|-------|---|------|----------|-----|-----|
| | | Added | Result | Qualifier | | | | | | |
| Toluene | | 0.100 | 0.09558 | | mg/Kg | | 96 | 70 - 130 | 3 | 35 |
| Ethylbenzene | | 0.100 | 0.09462 | | mg/Kg | | 95 | 70 - 130 | 1 | 35 |
| m-Xylene & p-Xylene | | 0.200 | 0.2011 | | mg/Kg | | 101 | 70 - 130 | 1 | 35 |
| o-Xylene | | 0.100 | 0.09676 | | mg/Kg | | 97 | 70 - 130 | 1 | 35 |

| Surrogate | LCSD | LCSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 120 | | 70 - 130 |

Lab Sample ID: 880-35178-A-1-B MS**Client Sample ID: Matrix Spike****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66026****Prep Batch: 66036**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | Limits | RPD |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | | |
| Benzene | <0.00199 | U | 0.0996 | 0.09563 | | mg/Kg | | 96 | 70 - 130 | |
| Toluene | <0.00199 | U | 0.0996 | 0.09414 | | mg/Kg | | 95 | 70 - 130 | |
| Ethylbenzene | <0.00199 | U | 0.0996 | 0.09436 | | mg/Kg | | 95 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.199 | 0.1965 | | mg/Kg | | 99 | 70 - 130 | |
| o-Xylene | <0.00199 | U | 0.0996 | 0.09416 | | mg/Kg | | 95 | 70 - 130 | |

| Surrogate | MS | MS | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 113 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 120 | | 70 - 130 |

Lab Sample ID: 880-35178-A-1-C MSD**Client Sample ID: Matrix Spike Duplicate****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66026****Prep Batch: 66036**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | Limits | RPD |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | | |
| Benzene | <0.00199 | U | 0.100 | 0.1002 | | mg/Kg | | 100 | 70 - 130 | 5 |
| Toluene | <0.00199 | U | 0.100 | 0.1005 | | mg/Kg | | 100 | 70 - 130 | 7 |
| Ethylbenzene | <0.00199 | U | 0.100 | 0.09938 | | mg/Kg | | 99 | 70 - 130 | 5 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.200 | 0.2110 | | mg/Kg | | 105 | 70 - 130 | 7 |
| o-Xylene | <0.00199 | U | 0.100 | 0.1012 | | mg/Kg | | 101 | 70 - 130 | 7 |

| Surrogate | MSD | MSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 114 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 115 | | 70 - 130 |

Lab Sample ID: MB 880-66069/5-A**Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66027****Prep Batch: 66069**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 12:07 | 11/02/23 23:05 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 12:07 | 11/02/23 23:05 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 12:07 | 11/02/23 23:05 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/02/23 12:07 | 11/02/23 23:05 | 1 |

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QC Sample Results

Client: Vertex

Job ID: 880-35156-1

Project/Site: Mis Amigos

SDG: 23-E05219

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: MB 880-66069/5-A****Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66027****Prep Batch: 66069**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/02/23 12:07 | 11/02/23 23:05 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/02/23 12:07 | 11/02/23 23:05 | 1 |
| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac | | |
| | %Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | 11/02/23 12:07 | 11/02/23 23:05 | 1 | | |
| 1,4-Difluorobenzene (Surr) | 145 | S1+ | 70 - 130 | 11/02/23 12:07 | 11/02/23 23:05 | 1 | | |

Lab Sample ID: LCS 880-66069/1-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66027****Prep Batch: 66069**

| Analyte | Spikes | LCS | LCS | Unit | D | Prepared | %Rec | Limits |
|-----------------------------|-----------|-----------|-----------|----------------|----------------|----------|----------|--------|
| | Added | Result | Qualifier | | | | | |
| Benzene | 0.100 | 0.1000 | | mg/Kg | | 100 | 70 - 130 | |
| Toluene | 0.100 | 0.08715 | | mg/Kg | | 87 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.08222 | | mg/Kg | | 82 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1907 | | mg/Kg | | 95 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09449 | | mg/Kg | | 94 | 70 - 130 | |
| Surrogate | LCS | LCS | Limits | Prepared | Analyzed | Dil Fac | | |
| | %Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 94 | | 70 - 130 | 11/02/23 12:07 | 11/02/23 23:05 | 1 | | |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | 11/02/23 12:07 | 11/02/23 23:05 | 1 | | |

Lab Sample ID: LCSD 880-66069/2-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66027****Prep Batch: 66069**

| Analyte | Spikes | LCSD | LCSD | Unit | D | Prepared | %Rec | RPD |
|-----------------------------|-----------|-----------|-----------|----------------|----------------|----------|----------|-------|
| | Added | Result | Qualifier | | | | | |
| Benzene | 0.100 | 0.1074 | | mg/Kg | | 107 | 70 - 130 | 7 |
| Toluene | 0.100 | 0.08546 | | mg/Kg | | 85 | 70 - 130 | 2 |
| Ethylbenzene | 0.100 | 0.08468 | | mg/Kg | | 85 | 70 - 130 | 3 |
| m-Xylene & p-Xylene | 0.200 | 0.1912 | | mg/Kg | | 96 | 70 - 130 | 0 |
| o-Xylene | 0.100 | 0.09184 | | mg/Kg | | 92 | 70 - 130 | 3 |
| Surrogate | LCSD | LCSD | Limits | Prepared | Analyzed | Dil Fac | | Limit |
| | %Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 | 11/02/23 12:07 | 11/02/23 23:05 | 1 | | |
| 1,4-Difluorobenzene (Surr) | 111 | | 70 - 130 | 11/02/23 12:07 | 11/02/23 23:05 | 1 | | |

Lab Sample ID: 880-35135-A-11-C MS**Client Sample ID: Matrix Spike****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66027****Prep Batch: 66069**

| Analyte | Sample | Sample | Spikes | MS | MS | Unit | D | Prepared | %Rec |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|----------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Benzene | <0.00199 | U | 0.0996 | 0.09092 | | mg/Kg | | 91 | 70 - 130 |
| Toluene | <0.00199 | U F1 | 0.0996 | 0.07117 | | mg/Kg | | 71 | 70 - 130 |
| Ethylbenzene | <0.00199 | U F1 | 0.0996 | 0.06999 | | mg/Kg | | 70 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.199 | 0.1630 | | mg/Kg | | 82 | 70 - 130 |
| o-Xylene | <0.00199 | U | 0.0996 | 0.08458 | | mg/Kg | | 85 | 70 - 130 |

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QC Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-35135-A-11-C MS

Matrix: Solid

Analysis Batch: 66027

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66069

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|-----------------|-----------------|----------|
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 |

Lab Sample ID: 880-35135-A-11-D MSD

Matrix: Solid

Analysis Batch: 66027

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66069

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD |
|---------------------|------------------|---------------------|----------------|---------------|------------------|-------|----|----------|-------|
| | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | Limits | Limit |
| Benzene | <0.00199 | U | 0.100 | 0.09510 | | mg/Kg | 95 | 70 - 130 | 4 |
| Toluene | <0.00199 | U F1 | 0.100 | 0.06640 | F1 | mg/Kg | 66 | 70 - 130 | 7 |
| Ethylbenzene | <0.00199 | U F1 | 0.100 | 0.06146 | F1 | mg/Kg | 61 | 70 - 130 | 13 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.200 | 0.1441 | | mg/Kg | 72 | 70 - 130 | 12 |
| o-Xylene | <0.00199 | U | 0.100 | 0.07276 | | mg/Kg | 72 | 70 - 130 | 15 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 118 | | 70 - 130 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-65999/1-A

Matrix: Solid

Analysis Batch: 65947

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65999

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------------|-----------------|------|-------|----------------|----------------|----------|---------|
| | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | 11/01/23 14:52 | 11/01/23 20:24 | | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | 11/01/23 14:52 | 11/01/23 20:24 | | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 11/01/23 14:52 | 11/01/23 20:24 | | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 249 | S1+ | 70 - 130 | 11/01/23 14:52 | 11/01/23 20:24 | 1 |
| o-Terphenyl | 291 | S1+ | 70 - 130 | 11/01/23 14:52 | 11/01/23 20:24 | 1 |

Lab Sample ID: LCS 880-65999/2-A

Matrix: Solid

Analysis Batch: 65947

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 65999

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|--------------------------------------|----------------|---------------|------------------|-------|----|----------|--------|
| | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 861.0 | | mg/Kg | 86 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 1000 | 912.7 | | mg/Kg | 91 | 70 - 130 | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|----------------|------------------|------------------|----------|
| 1-Chlorooctane | 77 | | 70 - 130 |
| o-Terphenyl | 95 | | 70 - 130 |

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QC Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-65999/3-A Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65999
Matrix: Solid
Analysis Batch: 65947

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|----------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 839.4 | | mg/Kg | | 84 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 813.3 | | mg/Kg | | 81 | 70 - 130 | 12 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|----------------|----------------|----------------|-------------|
| 1-Chlorooctane | 73 | | 70 - 130 |
| o-Terphenyl | 89 | | 70 - 130 |

Lab Sample ID: 880-35139-A-28-C MS Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 65999
Matrix: Solid
Analysis Batch: 65947

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6 | U | 1010 | 818.7 | | mg/Kg | | 77 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.6 | U | 1010 | 1028 | | mg/Kg | | 99 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | MS Limits |
|----------------|--------------|--------------|-----------|
| 1-Chlorooctane | 125 | | 70 - 130 |
| o-Terphenyl | 128 | | 70 - 130 |

Lab Sample ID: 880-35139-A-28-D MSD Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 65999
Matrix: Solid
Analysis Batch: 65947

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6 | U | 1010 | 993.2 | | mg/Kg | | 95 | 70 - 130 | 19 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.6 | U | 1010 | 1239 | | mg/Kg | | 120 | 70 - 130 | 19 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits |
|----------------|---------------|---------------|------------|
| 1-Chlorooctane | 146 | S1+ | 70 - 130 |
| o-Terphenyl | 146 | S1+ | 70 - 130 |

Lab Sample ID: MB 880-66046/1-A Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66046
Matrix: Solid
Analysis Batch: 66022

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 11/02/23 08:05 | 11/02/23 09:17 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/02/23 08:05 | 11/02/23 09:17 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/02/23 08:05 | 11/02/23 09:17 | 1 |

Eurofins Midland

QC Sample Results

Client: Vertex

Job ID: 880-35156-1

Project/Site: Mis Amigos

SDG: 23-E05219

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: MB 880-66046/1-A****Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66022****Prep Batch: 66046**

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|----|----|-----------|-----------|----------|----------------|----------------|---------|
| | | | | | | | | |
| 1-Chlorooctane | | | 188 | S1+ | 70 - 130 | 11/02/23 08:05 | 11/02/23 09:17 | 1 |
| <i>o</i> -Terphenyl | | | 219 | S1+ | 70 - 130 | 11/02/23 08:05 | 11/02/23 09:17 | 1 |

Lab Sample ID: LCS 880-66046/2-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66022****Prep Batch: 66046**

| Analyte | Spikes | LCS | LCS | Unit | D | %Rec | Limits | RPD |
|--------------------------------------|------------------|------------------|---------------|-------|---|------|----------|-----|
| | Added | Result | Qualifier | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1080 | | mg/Kg | | 108 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 1000 | 882.8 | | mg/Kg | | 88 | 70 - 130 | |
| Surrogate | LCS | LCS | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | |
| 1-Chlorooctane | 79 | | 70 - 130 | | | | | |
| <i>o</i> -Terphenyl | 96 | | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-66046/3-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66022****Prep Batch: 66046**

| Analyte | Spikes | LCSD | LCSD | Unit | D | %Rec | Limits | RPD |
|--------------------------------------|------------------|------------------|---------------|-------|---|------|----------|-----|
| | Added | Result | Qualifier | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 889.5 | | mg/Kg | | 89 | 70 - 130 | 19 |
| Diesel Range Organics (Over C10-C28) | 1000 | 806.1 | | mg/Kg | | 81 | 70 - 130 | 9 |
| Surrogate | LCSD | LCSD | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | |
| 1-Chlorooctane | 73 | | 70 - 130 | | | | | |
| <i>o</i> -Terphenyl | 89 | | 70 - 130 | | | | | |

Lab Sample ID: 880-35156-6 MS**Client Sample ID: WES23-23 0'****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 66022****Prep Batch: 66046**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec |
|--------------------------------------|------------------|------------------|---------------|----------|-----------|-------|---|------|
| | Result | Qualifier | Added | Result | Qualifier | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.2 | U | 990 | 1126 | | mg/Kg | | 110 |
| Diesel Range Organics (Over C10-C28) | 907 | F1 | 990 | 1560 | F1 | mg/Kg | | 66 |
| Surrogate | MS | MS | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | |
| 1-Chlorooctane | 143 | S1+ | | 70 - 130 | | | | |
| <i>o</i> -Terphenyl | 131 | S1+ | | 70 - 130 | | | | |

Eurofins Midland

QC Sample Results

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-35156-6 MSD

Client Sample ID: WES23-23 0'

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 66022

Prep Batch: 66046

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|---|---------------|------------------|-------------|-----------------|---------------|-------|---|------|----------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2 | U | 990 | 1071 | | mg/Kg | | 104 | 70 - 130 | 5 | 20 |
| Diesel Range Organics (Over C10-C28) | 907 | F1 | 990 | 1598 | | mg/Kg | | 70 | 70 - 130 | 2 | 20 |
| <i>Surrogate</i> | | | | | | | | | | | |
| <i>MSD MSD %Recovery Qualifier Limits</i> | | | | | | | | | | | |
| 1-Chlorooctane | 138 | S1+ | | 70 - 130 | | | | | | | |
| <i>o-Terphenyl</i> | <i>130</i> | | | <i>70 - 130</i> | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65989/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 66082

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|----|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | | 5.00 | mg/Kg | | | 11/02/23 16:55 | 1 |

Lab Sample ID: LCS 880-65989/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 66082

| Analyte | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|--|-------------|------------|---------------|-------|---|------|----------|
| Chloride | | 250 | 255.1 | | mg/Kg | | 102 | 90 - 110 |

Lab Sample ID: LCSD 880-65989/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 66082

| Analyte | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|----------|--|-------------|-------------|----------------|-------|---|------|----------|-----|-----------|
| Chloride | | 250 | 257.0 | | mg/Kg | | 103 | 90 - 110 | 1 | 20 |

Lab Sample ID: 880-35156-1 MS

Client Sample ID: WES23-05 0'

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 66082

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Chloride | 57.8 | | 250 | 289.5 | | mg/Kg | | 93 | 90 - 110 |

Lab Sample ID: 880-35156-1 MSD

Client Sample ID: WES23-05 0'

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 66082

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-----------|
| Chloride | 57.8 | | 250 | 288.8 | | mg/Kg | | 92 | 90 - 110 | 0 | 20 |

Eurofins Midland

QC Association Summary

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

GC VOA**Analysis Batch: 66026**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-35156-2 | WES23-06 0' | Total/NA | Solid | 8021B | 66036 |
| 880-35156-3 | WES23-07 0' | Total/NA | Solid | 8021B | 66036 |
| 880-35156-4 | WES23-21 0' | Total/NA | Solid | 8021B | 66036 |
| 880-35156-5 | WES23-22 0' | Total/NA | Solid | 8021B | 66036 |
| 880-35156-6 | WES23-23 0' | Total/NA | Solid | 8021B | 66036 |
| 880-35156-7 | WES23-24 0' | Total/NA | Solid | 8021B | 66036 |
| 880-35156-8 | WES23-25 0' | Total/NA | Solid | 8021B | 66036 |
| MB 880-66036/5-A | Method Blank | Total/NA | Solid | 8021B | 66036 |
| LCS 880-66036/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 66036 |
| LCSD 880-66036/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 66036 |
| 880-35178-A-1-B MS | Matrix Spike | Total/NA | Solid | 8021B | 66036 |
| 880-35178-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 66036 |

Analysis Batch: 66027

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-35156-1 | WES23-05 0' | Total/NA | Solid | 8021B | 66069 |
| MB 880-66035/5-A | Method Blank | Total/NA | Solid | 8021B | 66035 |
| MB 880-66069/5-A | Method Blank | Total/NA | Solid | 8021B | 66069 |
| LCS 880-66069/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 66069 |
| LCSD 880-66069/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 66069 |
| 880-35135-A-11-C MS | Matrix Spike | Total/NA | Solid | 8021B | 66069 |
| 880-35135-A-11-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 66069 |

Prep Batch: 66035

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-66035/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 66036

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-35156-2 | WES23-06 0' | Total/NA | Solid | 5035 | |
| 880-35156-3 | WES23-07 0' | Total/NA | Solid | 5035 | |
| 880-35156-4 | WES23-21 0' | Total/NA | Solid | 5035 | |
| 880-35156-5 | WES23-22 0' | Total/NA | Solid | 5035 | |
| 880-35156-6 | WES23-23 0' | Total/NA | Solid | 5035 | |
| 880-35156-7 | WES23-24 0' | Total/NA | Solid | 5035 | |
| 880-35156-8 | WES23-25 0' | Total/NA | Solid | 5035 | |
| MB 880-66036/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-66036/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-66036/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-35178-A-1-B MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-35178-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Prep Batch: 66069

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 880-35156-1 | WES23-05 0' | Total/NA | Solid | 5035 | |
| MB 880-66069/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-66069/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-66069/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-35135-A-11-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-35135-A-11-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Eurofins Midland

QC Association Summary

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

GC VOA**Analysis Batch: 66194**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-35156-1 | WES23-05 0' | Total/NA | Solid | Total BTEX | |
| 880-35156-2 | WES23-06 0' | Total/NA | Solid | Total BTEX | |
| 880-35156-3 | WES23-07 0' | Total/NA | Solid | Total BTEX | |
| 880-35156-4 | WES23-21 0' | Total/NA | Solid | Total BTEX | |
| 880-35156-5 | WES23-22 0' | Total/NA | Solid | Total BTEX | |
| 880-35156-6 | WES23-23 0' | Total/NA | Solid | Total BTEX | |
| 880-35156-7 | WES23-24 0' | Total/NA | Solid | Total BTEX | |
| 880-35156-8 | WES23-25 0' | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Analysis Batch: 65947**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 880-35156-1 | WES23-05 0' | Total/NA | Solid | 8015B NM | 65999 |
| 880-35156-2 | WES23-06 0' | Total/NA | Solid | 8015B NM | 65999 |
| 880-35156-3 | WES23-07 0' | Total/NA | Solid | 8015B NM | 65999 |
| 880-35156-4 | WES23-21 0' | Total/NA | Solid | 8015B NM | 65999 |
| 880-35156-5 | WES23-22 0' | Total/NA | Solid | 8015B NM | 65999 |
| MB 880-65999/1-A | Method Blank | Total/NA | Solid | 8015B NM | 65999 |
| LCS 880-65999/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 65999 |
| LCSD 880-65999/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 65999 |
| 880-35139-A-28-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 65999 |
| 880-35139-A-28-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 65999 |

Prep Batch: 65999

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 880-35156-1 | WES23-05 0' | Total/NA | Solid | 8015NM Prep | |
| 880-35156-2 | WES23-06 0' | Total/NA | Solid | 8015NM Prep | |
| 880-35156-3 | WES23-07 0' | Total/NA | Solid | 8015NM Prep | |
| 880-35156-4 | WES23-21 0' | Total/NA | Solid | 8015NM Prep | |
| 880-35156-5 | WES23-22 0' | Total/NA | Solid | 8015NM Prep | |
| MB 880-65999/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-65999/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-65999/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-35139-A-28-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-35139-A-28-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 66022

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-35156-6 | WES23-23 0' | Total/NA | Solid | 8015B NM | 66046 |
| 880-35156-7 | WES23-24 0' | Total/NA | Solid | 8015B NM | 66046 |
| 880-35156-8 | WES23-25 0' | Total/NA | Solid | 8015B NM | 66046 |
| MB 880-66046/1-A | Method Blank | Total/NA | Solid | 8015B NM | 66046 |
| LCS 880-66046/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 66046 |
| LCSD 880-66046/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 66046 |
| 880-35156-6 MS | WES23-23 0' | Total/NA | Solid | 8015B NM | 66046 |
| 880-35156-6 MSD | WES23-23 0' | Total/NA | Solid | 8015B NM | 66046 |

Prep Batch: 66046

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 880-35156-6 | WES23-23 0' | Total/NA | Solid | 8015NM Prep | |

Eurofins Midland

QC Association Summary

Client: Vertex

Job ID: 880-35156-1

Project/Site: Mis Amigos

SDG: 23-E05219

GC Semi VOA (Continued)**Prep Batch: 66046 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 880-35156-7 | WES23-24 0' | Total/NA | Solid | 8015NM Prep | |
| 880-35156-8 | WES23-25 0' | Total/NA | Solid | 8015NM Prep | |
| MB 880-66046/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-66046/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-66046/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-35156-6 MS | WES23-23 0' | Total/NA | Solid | 8015NM Prep | |
| 880-35156-6 MSD | WES23-23 0' | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 66071

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-35156-1 | WES23-05 0' | Total/NA | Solid | 8015 NM | |
| 880-35156-2 | WES23-06 0' | Total/NA | Solid | 8015 NM | |
| 880-35156-3 | WES23-07 0' | Total/NA | Solid | 8015 NM | |
| 880-35156-4 | WES23-21 0' | Total/NA | Solid | 8015 NM | |
| 880-35156-5 | WES23-22 0' | Total/NA | Solid | 8015 NM | |
| 880-35156-6 | WES23-23 0' | Total/NA | Solid | 8015 NM | |
| 880-35156-7 | WES23-24 0' | Total/NA | Solid | 8015 NM | |
| 880-35156-8 | WES23-25 0' | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 65989**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-35156-1 | WES23-05 0' | Soluble | Solid | DI Leach | |
| 880-35156-2 | WES23-06 0' | Soluble | Solid | DI Leach | |
| 880-35156-3 | WES23-07 0' | Soluble | Solid | DI Leach | |
| 880-35156-4 | WES23-21 0' | Soluble | Solid | DI Leach | |
| 880-35156-5 | WES23-22 0' | Soluble | Solid | DI Leach | |
| 880-35156-6 | WES23-23 0' | Soluble | Solid | DI Leach | |
| 880-35156-7 | WES23-24 0' | Soluble | Solid | DI Leach | |
| 880-35156-8 | WES23-25 0' | Soluble | Solid | DI Leach | |
| MB 880-65989/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-65989/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-65989/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-35156-1 MS | WES23-05 0' | Soluble | Solid | DI Leach | |
| 880-35156-1 MSD | WES23-05 0' | Soluble | Solid | DI Leach | |

Analysis Batch: 66082

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-35156-1 | WES23-05 0' | Soluble | Solid | 300.0 | 65989 |
| 880-35156-2 | WES23-06 0' | Soluble | Solid | 300.0 | 65989 |
| 880-35156-3 | WES23-07 0' | Soluble | Solid | 300.0 | 65989 |
| 880-35156-4 | WES23-21 0' | Soluble | Solid | 300.0 | 65989 |
| 880-35156-5 | WES23-22 0' | Soluble | Solid | 300.0 | 65989 |
| 880-35156-6 | WES23-23 0' | Soluble | Solid | 300.0 | 65989 |
| 880-35156-7 | WES23-24 0' | Soluble | Solid | 300.0 | 65989 |
| 880-35156-8 | WES23-25 0' | Soluble | Solid | 300.0 | 65989 |
| MB 880-65989/1-A | Method Blank | Soluble | Solid | 300.0 | 65989 |
| LCS 880-65989/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 65989 |
| LCSD 880-65989/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 65989 |
| 880-35156-1 MS | WES23-05 0' | Soluble | Solid | 300.0 | 65989 |

Eurofins Midland

QC Association Summary

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

HPLC/IC (Continued)**Analysis Batch: 66082 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| 880-35156-1 MSD | WES23-05 0' | Soluble | Solid | 300.0 | 65989 |

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Eurofins Midland

Lab Chronicle

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

Client Sample ID: WES23-05 0'**Lab Sample ID: 880-35156-1**

Matrix: Solid

Date Collected: 10/30/23 10:00
Date Received: 11/01/23 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 66069 | 11/02/23 12:07 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 66027 | 11/03/23 02:38 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66194 | 11/03/23 02:38 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 66071 | 11/02/23 03:57 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.96 g | 10 mL | 65999 | 11/01/23 14:52 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65947 | 11/02/23 03:57 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.00 g | 50 mL | 65989 | 11/01/23 14:21 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 66082 | 11/02/23 17:11 | CH | EET MID |

Client Sample ID: WES23-06 0'**Lab Sample ID: 880-35156-2**

Matrix: Solid

Date Collected: 10/30/23 10:05
Date Received: 11/01/23 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 66036 | 11/02/23 08:57 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 66026 | 11/02/23 15:51 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66194 | 11/02/23 15:51 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 66071 | 11/02/23 04:18 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.98 g | 10 mL | 65999 | 11/01/23 14:52 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65947 | 11/02/23 04:18 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 65989 | 11/01/23 14:21 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 66082 | 11/02/23 17:26 | CH | EET MID |

Client Sample ID: WES23-07 0'**Lab Sample ID: 880-35156-3**

Matrix: Solid

Date Collected: 10/30/23 10:10
Date Received: 11/01/23 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 66036 | 11/02/23 08:57 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 66026 | 11/02/23 16:12 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66194 | 11/02/23 16:12 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 66071 | 11/02/23 04:40 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.91 g | 10 mL | 65999 | 11/01/23 14:52 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65947 | 11/02/23 04:40 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 65989 | 11/01/23 14:21 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 66082 | 11/02/23 17:32 | CH | EET MID |

Client Sample ID: WES23-21 0'**Lab Sample ID: 880-35156-4**

Matrix: Solid

Date Collected: 10/30/23 10:15
Date Received: 11/01/23 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 66036 | 11/02/23 08:57 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 66026 | 11/02/23 16:32 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66194 | 11/02/23 16:32 | SM | EET MID |

Eurofins Midland

Lab Chronicle

Client: Vertex
Project/Site: Mis Amigos

Job ID: 880-35156-1
SDG: 23-E05219

Client Sample ID: WES23-21 0'**Lab Sample ID: 880-35156-4**

Matrix: Solid

Date Collected: 10/30/23 10:15
Date Received: 11/01/23 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | | | 66071 | 11/02/23 05:01 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 65999 | 11/01/23 14:52 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65947 | 11/02/23 05:01 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 65989 | 11/01/23 14:21 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 66082 | 11/02/23 17:37 | CH | EET MID |

Client Sample ID: WES23-22 0'**Lab Sample ID: 880-35156-5**

Matrix: Solid

Date Collected: 10/30/23 10:20
Date Received: 11/01/23 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 66036 | 11/02/23 08:57 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 66026 | 11/02/23 16:53 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66194 | 11/02/23 16:53 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 66071 | 11/02/23 05:22 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.09 g | 10 mL | 65999 | 11/01/23 14:52 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 65947 | 11/02/23 05:22 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 65989 | 11/01/23 14:21 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 66082 | 11/02/23 17:42 | CH | EET MID |

Client Sample ID: WES23-23 0'**Lab Sample ID: 880-35156-6**

Matrix: Solid

Date Collected: 10/30/23 10:25
Date Received: 11/01/23 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 66036 | 11/02/23 08:57 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 66026 | 11/02/23 17:13 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66194 | 11/02/23 17:13 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 66071 | 11/02/23 13:16 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.96 g | 10 mL | 66046 | 11/02/23 11:05 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 66022 | 11/02/23 13:16 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 65989 | 11/01/23 14:21 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 66082 | 11/02/23 17:58 | CH | EET MID |

Client Sample ID: WES23-24 0'**Lab Sample ID: 880-35156-7**

Matrix: Solid

Date Collected: 10/30/23 10:30
Date Received: 11/01/23 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 66036 | 11/02/23 08:57 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 66026 | 11/02/23 17:34 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66194 | 11/02/23 17:34 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 66071 | 11/02/23 14:21 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.94 g | 10 mL | 66046 | 11/02/23 11:05 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 66022 | 11/02/23 14:21 | SM | EET MID |

Eurofins Midland

Lab Chronicle

Client: Vertex
 Project/Site: Mis Amigos

Job ID: 880-35156-1
 SDG: 23-E05219

Client Sample ID: WES23-24 0'**Lab Sample ID: 880-35156-7**

Matrix: Solid

Date Collected: 10/30/23 10:30
 Date Received: 11/01/23 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 65989 | 11/01/23 14:21 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 66082 | 11/02/23 18:13 | CH | EET MID |

Client Sample ID: WES23-25 0'**Lab Sample ID: 880-35156-8**

Matrix: Solid

Date Collected: 10/30/23 10:35
 Date Received: 11/01/23 13:14

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 66036 | 11/02/23 08:57 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 66026 | 11/02/23 17:54 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 66194 | 11/02/23 17:54 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 66071 | 11/02/23 14:43 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.92 g | 10 mL | 66046 | 11/02/23 11:05 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 66022 | 11/02/23 14:43 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 65989 | 11/01/23 14:21 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 66082 | 11/02/23 18:03 | CH | EET MID |

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Vertex

Job ID: 880-35156-1

Project/Site: Mis Amigos

SDG: 23-E05219

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-23-26 | 06-30-24 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

Eurofins Midland

Method Summary

Client: Vertex
 Project/Site: Mis Amigos

Job ID: 880-35156-1
 SDG: 23-E05219

| Method | Method Description | Protocol | Laboratory |
|---------------|------------------------------------|-----------------|-------------------|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 300.0 | Anions, Ion Chromatography | EPA | EET MID |
| 5035 | Closed System Purge and Trap | SW846 | EET MID |
| 8015NM Prep | Microextraction | SW846 | EET MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | EET MID |

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Vertex

Job ID: 880-35156-1

Project/Site: Mis Amigos

SDG: 23-E05219

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 880-35156-1 | WES23-05 0' | Solid | 10/30/23 10:00 | 11/01/23 13:14 |
| 880-35156-2 | WES23-06 0' | Solid | 10/30/23 10:05 | 11/01/23 13:14 |
| 880-35156-3 | WES23-07 0' | Solid | 10/30/23 10:10 | 11/01/23 13:14 |
| 880-35156-4 | WES23-21 0' | Solid | 10/30/23 10:15 | 11/01/23 13:14 |
| 880-35156-5 | WES23-22 0' | Solid | 10/30/23 10:20 | 11/01/23 13:14 |
| 880-35156-6 | WES23-23 0' | Solid | 10/30/23 10:25 | 11/01/23 13:14 |
| 880-35156-7 | WES23-24 0' | Solid | 10/30/23 10:30 | 11/01/23 13:14 |
| 880-35156-8 | WES23-25 0' | Solid | 10/30/23 10:35 | 11/01/23 13:14 |

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 eurofins

Environment Testing
XENCO

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

Chain of Custody



880-35156 Chain of Custody

| | | | | |
|--|-----------------|---|-------------------------------------|--|
| Project Manager: | Chance Dixon | Bill to: (if different) | Garret Green | Wor |
| Company Name: | Vertex | Company Name: | XTC | V. |
| Address: | | | | www.eurofins.com |
| City, State ZIP: | | City, State ZIP: | | |
| Phone | | Email: | dixon@vertex.ca | |
| ANALYSIS REQUEST | | | | Preservative Codes |
| Project Name: | WES23-05 | Turn Around: | | None NO |
| Project Number: | 23E-05219 | Routine: | <input checked="" type="checkbox"/> | DI Water H ₂ O |
| Project Location: | | Due Date: | | Cool Cool |
| Sampler's Name: | Hunter Klein | TAT starts the day received by the lab, if received by 4:30pm | | MeOH Me |
| P.O # | | | | HCl HC |
| SAMPLE RECEIPT | Temp Blank: Yes | Wet Ice: No | Parameters | HNO ₃ HN |
| Samples Received Intact: | Yes | Thermometer ID: TURBO1 | | H ₂ SO ₄ H ₂ |
| Cooler/Custody Seals: | Yes | Correction Factor: -0.2 | | H ₃ PO ₄ HP |
| Sample Custody Seals: | No | Temperature Reading: 24.8 | | NaHSO ₄ NABIS |
| Total Containers: | N/A | Corrected Temperature: | | Na ₂ S ₂ O ₃ NaSO ₃ |
| Sample Identification | Matik: | Date Sampled: | Time Sampled: | Zn Acetate+NaOH Zn |
| WES23-05 | B' | Soil | 10/10/23 | NaOH+Ascorbic Acid SAPC |
| WES23-06 | B' | | 10:05 | |
| WES23-07 | B' | | 10:10 | |
| BES23-21 | B' | | 10:15 | |
| BES23-22 | B' | | 10:20 | |
| BES23-23 | B' | | 10:25 | |
| BES23-24 | B' | | 10:30 | |
| BES23-25 | B' | | 10:35 | (3.8)4.0 |
| | | | | Sample Comments |
| Total 200.7 / 6010 | 200.8 / 6020: | 8RCRA | 13PPM | Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn |
| Circle Method(s) and Metal(s) to be analyzed | | TCLP / SPLP 6010 | 8RCRA | Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 2451 / 7470 / 7471 |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| 1 Hunter Klein | S. Dunn | 10/13 | 2 | 3 | 10/12/23 |
| 4 | | | 4 | | 11/13/23 |
| 5 | | | 6 | | 11/13/23 |

Login Sample Receipt Checklist

Client: Vertex

Job Number: 880-35156-1
SDG Number: 23-E05219**Login Number:** 35156**List Source:** Eurofins Midland**List Number:** 1**Creator:** Rodriguez, Leticia

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | N/A | | 1 |
| Sample custody seals, if present, are intact. | N/A | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| Sample collection date/times are provided. | True | | |
| Appropriate sample containers are used. | True | | |
| Sample bottles are completely filled. | True | | |
| Sample Preservation Verified. | N/A | | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | | |

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

District IV
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

QUESTIONS

Action 294910

QUESTIONS

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 294910 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Prerequisites | |
|------------------|-------------------------------------|
| Incident ID (n#) | nAPP2329851014 |
| Incident Name | NAPP2329851014 MIS AMIGOS CTB @ 0 |
| Incident Type | Produced Water Release |
| Incident Status | Remediation Closure Report Received |

Location of Release Source

Please answer all the questions in this group.

| | |
|-------------------------|----------------|
| Site Name | MIS AMIGOS CTB |
| Date Release Discovered | 10/12/2023 |
| Surface Owner | State |

Incident Details

Please answer all the questions in this group.

| | |
|--|------------------------|
| Incident Type | Produced Water Release |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

| | |
|--|--|
| Crude Oil Released (bbls) Details | Not answered. |
| Produced Water Released (bbls) Details | Cause: Equipment Failure Pump Produced Water Released: 16 BBL Recovered: 15 BBL Lost: 1 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | Yes |
| Condensate Released (bbls) Details | Not answered. |
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Not answered. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered. |

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District IV
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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

QUESTIONS, Page 2

Action 294910

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 294910 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Nature and Volume of Release (continued) | |
|---|---|
| Is this a gas only submission (i.e. only significant Mcf values reported) | No, according to supplied volumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | No |
| Reasons why this would be considered a submission for a notification of a major release | Unavailable. |

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

| Initial Response | |
|---|---------------|
| <i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i> | |
| The source of the release has been stopped | True |
| The impacted area has been secured to protect human health and the environment | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately | True |
| If all the actions described above have not been undertaken, explain why | Not answered. |

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

| | |
|---|--|
| <p>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.</p> | |
| I hereby agree and sign off to the above statement | Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 12/14/2023 |

District I

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

QUESTIONS, Page 3

Action 294910

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 294910 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| | |
|--|--------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 100 and 500 (ft.) |
| What method was used to determine the depth to ground water | Attached Document |
| Did this release impact groundwater or surface water | No |
| What is the minimum distance, between the closest lateral extents of the release and the following surface areas: | |
| A continuously flowing watercourse or any other significant watercourse | Between 500 and 1000 (ft.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Between 1000 (ft.) and ½ (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Greater than 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Greater than 5 (mi.) |
| Any other fresh water well or spring | Greater than 5 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) |
| A wetland | Between 1 and 5 (mi.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Greater than 5 (mi.) |
| Categorize the risk of this well / site being in a karst geology | Low |
| A 100-year floodplain | Greater than 5 (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site | No |

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| | |
|--|-------|
| Requesting a remediation plan approval with this submission | Yes |
| <i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i> | |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Was this release entirely contained within a lined containment area | No |
| Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) | |
| Chloride (EPA 300.0 or SM4500 Cl B) | 11600 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 297 |
| GRO+DRO (EPA SW-846 Method 8015M) | 297 |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 0 |
| Benzene (EPA SW-846 Method 8021B or 8260B) | 0 |

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

| | |
|---|------------|
| On what estimated date will the remediation commence | 10/23/2023 |
| On what date will (or did) the final sampling or liner inspection occur | 10/23/2023 |
| On what date will (or was) the remediation complete(d) | 11/16/2023 |
| What is the estimated surface area (in square feet) that will be reclaimed | 5376 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 160 |
| What is the estimated surface area (in square feet) that will be remediated | 5376 |
| What is the estimated volume (in cubic yards) that will be remediated | 160 |

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 294910

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 294910 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

| | |
|---|--|
| (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) | Yes |
| Which OCD approved facility will be used for off-site disposal | HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510] |
| OR which OCD approved well (API) will be used for off-site disposal | <i>Not answered.</i> |
| OR is the off-site disposal site, to be used, out-of-state | <i>Not answered.</i> |
| OR is the off-site disposal site, to be used, an NMED facility | <i>Not answered.</i> |
| (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) | <i>Not answered.</i> |
| (In Situ) Soil Vapor Extraction | <i>Not answered.</i> |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | <i>Not answered.</i> |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | <i>Not answered.</i> |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | <i>Not answered.</i> |
| Ground Water Abatement pursuant to 19.15.30 NMAC | <i>Not answered.</i> |
| OTHER (Non-listed remedial process) | <i>Not answered.</i> |

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

| | |
|--|--|
| I hereby agree and sign off to the above statement | Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 12/14/2023 |
|--|--|

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 294910

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 294910 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS**Deferral Requests Only***Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*

| | |
|--|----|
| Requesting a deferral of the remediation closure due date with the approval of this submission | No |
|--|----|

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QUESTIONS, Page 6

Action 294910

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 294910 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Sampling Event Information | |
|---|-------------------|
| Last sampling notification (C-141N) recorded | 294899 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 10/27/2023 |
| What was the (estimated) number of samples that were to be gathered | 32 |
| What was the sampling surface area in square feet | 5376 |

Remediation Closure Request*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

| | |
|--|-------------|
| Requesting a remediation closure approval with this submission | Yes |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Was this release entirely contained within a lined containment area | No |
| All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion | Yes |
| What was the total surface area (in square feet) remediated | 5376 |
| What was the total volume (cubic yards) remediated | 160 |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene | Yes |
| What was the total surface area (in square feet) reclaimed | 5376 |
| What was the total volume (in cubic yards) reclaimed | 160 |
| Summarize any additional remediation activities not included by answers (above) | None |

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 (in .pdf format) 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.

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.

| | |
|--|--|
| I hereby agree and sign off to the above statement | Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 12/14/2023 |
|--|--|

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QUESTIONS, Page 7

Action 294910

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 294910 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS**Reclamation Report***Only answer the questions in this group if all reclamation steps have been completed.*

| | |
|--|-----------------------------|
| Requesting a reclamation approval with this submission | <input type="checkbox"/> No |
|--|-----------------------------|

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CONDITIONS

Action 294910

CONDITIONS

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 294910 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| nvelez | None | 3/15/2024 |