| Location:                   | Mis Amigos Tank Battery    |         |         |
|-----------------------------|----------------------------|---------|---------|
| Spill Date:                 | 12/18/2023                 |         |         |
|                             | Area 1                     |         |         |
| Approximate A               | rea =                      | 5233.80 | sq. ft. |
| Average Satura              | tion (or depth) of spill = | 0.50    | inches  |
| Average Porosi              | ty Factor =                | 0.03    |         |
|                             | VOLUME OF LEAK             |         |         |
| Total Crude Oil             | =                          | 0.00    | bbls    |
| Total Produced Water = 7.1  |                            | bbls    |         |
|                             | TOTAL VOLUME OF LEAK       |         |         |
| Total Crude Oi              | =                          | 0.00    | bbls    |
| Total Produced Water = 7.17 |                            | bbls    |         |
|                             | TOTAL VOLUME RECOVERED     |         |         |
| Total Crude Oi              | =                          | 0.00    | bbls    |
| Total Produced Water = 6.00 |                            |         | bbls    |

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

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

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

QUESTIONS

Action 296541

#### **QUESTIONS**

| Operator:              | OGRID:                                  |
|------------------------|---|
| XTO ENERGY, INC        | 5380                                    |
| 6401 Holiday Hill Road | Action Number:                          |
| Midland, TX 79707      | 296541                                  |
|                        | Action Type:                            |
|                        | [C-141] Initial C-141 (C-141-v-Initial) |

#### QUESTIONS

| Prerequisites    |  |  |
|------------------|--|--|
| Incident ID (n#) | nAPP2335431615                             |  |
| Incident Name    | NAPP2335431615 MIS AMIGOS TANK BATTERY @ 0 |  |
| Incident Type    | Produced Water Release                     |  |
| Incident Status  | Initial C-141 Received                     |  |

| Location of Release Source                     |                         |
|--|-------------------------|
| Please answer all the questions in this group. |                         |
| Site Name                                      | Mis Amigos Tank Battery |
| Date Release Discovered                        | 12/18/2023              |
| 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: Corrosion   Other (Specify)   Produced Water   Released: 7 BBL   Recovered: 6 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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> XTO ENERGY, INC 6401 Holiday Hill Road

Midland, TX 79707

## **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 296541

| QUESTIONS (continued) |        |
|-----------------------|--------|
|                       | OGRID: |
|                       | 5380   |

Action Number: 296541 Action Type: [C-141] Initial C-141 (C-141-v-Initial)

#### QUESTIONS

Operator:

| 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  |               |  |
|---|---------------|--|
| The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.  |               |  |
| 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 10.15.20.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun please prepare and attach a parrative 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.

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.

Name: Melanie Collins Title: Regulatory Analyst I hereby agree and sign off to the above statement Email: Melanie.Collins@exxonmobil.com Date: 12/20/2023

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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 296541

| •  |      |      |        | 4.    |     |
|----|------|------|--------|-------|-----|
| ωι | JEST | TONS | i (COI | าtınu | ed) |

| Operator:              | OGRID:                                  |
|------------------------|---|
| XTO ENERGY, INC        | 5380                                    |
| 6401 Holiday Hill Road | Action Number:                          |
| Midland, TX 79707      | 296541                                  |
|                        | Action Type:                            |
|                        | [C-141] Initial C-141 (C-141-v-Initial) |

#### 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)  | Not answered. |  |
| What method was used to determine the depth to ground water   | Not answered. |  |
| Did this release impact groundwater or surface water  | Not answered. |  |
| 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   | Not answered. |  |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)   | Not answered. |  |
| An occupied permanent residence, school, hospital, institution, or church   | Not answered. |  |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes   | Not answered. |  |
| Any other fresh water well or spring  | Not answered. |  |
| Incorporated municipal boundaries or a defined municipal fresh water well field   | Not answered. |  |
| A wetland   | Not answered. |  |
| A subsurface mine   | Not answered. |  |
| An (non-karst) unstable area  | Not answered. |  |
| Categorize the risk of this well / site being in a karst geology  | Not answered. |  |
| A 100-year floodplain   | Not answered. |  |
| Did the release impact areas not on an exploration, development, production, or storage site  | Not answered. |  |

| 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 No   |  |  |  |  |  |  |
| 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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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 296541

#### **CONDITIONS**

| Operator:              | OGRID:                                  |
|------------------------|---|
| XTO ENERGY, INC        | 5380                                    |
| 6401 Holiday Hill Road | Action Number:                          |
| Midland, TX 79707      | 296541                                  |
|                        | Action Type:                            |
|                        | [C-141] Initial C-141 (C-141-v-Initial) |

#### CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| scwells    | None      | 12/20/2023     |

### **ATTACHMENT 2**

| Table 1. ( | Closure Criteria Worksheet  |         |                                   |  |
|------------|---|---------|-----------------------------------|--|
|            | e: Mis Amigos Tank Battery  |         |                                   |  |
| Spill Coo  | rdinates: 32.254544, -103.609145  |         |                                   |  |
| Site Spec  | ific Conditions   | Value   | Unit                              |  |
| 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, <b>or</b>   | 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<br>High<br>Medium<br>Low |  |
|            | Distance to nearest unstable area   | 11      | Miles                             |  |
| 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'<br>51-100'<br>>100'          |  |



# New Mexico Office of the State Engineer

# **Water Right Summary**

WR File Number: C 04551 Subbasin: CUB Cross Reference:

Primary Purpose: MON MONITORING WELL

**Primary Status:** PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Q

Agent: WSP USA

Contact: KALEI JENNINGS
User: XTO ENERGY INC
Contact: KYLE LITTRELL

**Documents on File** 

 Status
 From/

 Trn #
 Doc
 File/Act
 1
 2
 Transaction Desc.
 To
 Acres
 Diversion
 Consumptive

 699428
 EXPL
 2021-07-08
 PMT
 LOG
 C 04551 POD1
 T
 0
 0

**Current Points of Diversion** 

(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64Q16Q4Sec Tws Rng
 X
 Y
 Other Location Desc

 C 04551 POD1
 NA
 4 4 3 31 238 33E
 630671 3569556
 BH01

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

12/12/23 2:29 PM WATER RIGHT SUMMARY



## New Mexico Office of the State Engineer

# **Active & Inactive Points of Diversion**

(with Ownership Information)

(acre ft per annum)

(R=POD has been replaced and no longer serves this file, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)

(NAD83 UTM in meters)

basin Use Diversion Owner 0 WSP USA Well Tag

Code Grant

q q qSource 6416 4 Sec Tws Rng

X 630671

Distance 348

C 04551

WR File Nbr

C 03565

CUB MON

C 04551 POD1

County POD Number

LE C 03565 POD7

NA

4 4 3 31 23S 33E 2 2 06 24S 33E

631361 3569250 426

Record Count: 2

UTMNAD83 Radius Search (in meters):

CUB EXP

**Easting (X):** 631015

**Northing (Y):** 3569499.3

0 INTERCONTINENTAL POTASH CORP

Radius: 1000

Sorted by: Distance

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

9/20/23 12:04 PM ACTIVE & INACTIVE POINTS OF DIVERSION

# Mis Amigos POD Location



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

Override 1 **GIS WATERS PODs** 

Pending

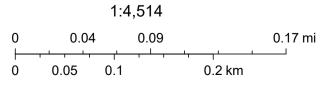
Plugged

Water Right Regulations

Closure Area

New Mexico State Trust Lands

**Both Estates** 



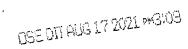
Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

**OSE District Boundary** 

PAGE 1 OF 2

WELL TAG ID NO.





| N.                               | OSE POD NO. (WELL NO.)  POD1 (BH-01)  WELL TAG ID NO.  n/a |            | OSE FILE NO(S).<br>C-4551           |                |   |                        |                  |                                |                                |             |                         |                  |
|----------------------------------|--|------------|-------------------------------------|----------------|---|------------------------|------------------|--------------------------------|--------------------------------|-------------|-------------------------|------------------|
| ATIC                             | WELL OWNER NAME(S)   |            |                                     |                |   |                        | PHONE (OPTIONAL) |                                |                                |             |                         |                  |
| LOC                              | XTO Energ  |            |                                     |                |   |                        |                  |                                |                                |             |                         |                  |
| WELL                             | WELL OWNER MAILING ADDRESS<br>6401 Holiday Hill Dr.        |            |                                     |                |   |                        |                  | CITY<br>Midland                |                                | STATE<br>TX | 79707                   | ZIP              |
| GENERAL AND WELL LOCATION        | WELL DE LOCATION LATITUDE                                  |            | GREES MINUTES SECONDS 32 15 18.36 N |                | ACCURACY REQUIRED: ONE TENTH OF A SECOND            |                        |                  |                                |                                |             |                         |                  |
| VER.                             | (FROM GF   | PS)        | ONGITUDE                            | 103 36 46.04 W |   | DATUM REQUIRED: WGS 84 |                  |                                |                                |             |                         |                  |
| 1. GE                            | DESCRIPTION SE SW Se                                       |            | ING WELL LOCATION TO<br>S R33E      | STREET ADD     | RESS AND COMMON                                     | N LANDM                | ARKS – PLS       | S (SECTION, TO                 | WNSHJIP, RANGE) WH             | ERE AVA     | ILABLE                  |                  |
|                                  | LICENSE NO   |            | NAME OF LICENSED                    |                | Jackie D. Atkins                                    |                        |                  |                                | NAME OF WELL DRI<br>Atkins Eng |             | OMPANY<br>Associates, I | nc.              |
|                                  | DRILLING S<br>07/20/                                       |            | DRILLING ENDED 07/20/2021           |                | OMPLETED WELL (F                                    |                        |                  | LE DEPTH (FT)                  | DEPTH WATER FIR:               | T ENCOU     |                         |                  |
| _                                | COMPLETE   | D WELL IS: | ARTESIAN                            | DRY HO         | LE SHALLO   | W (UNCC                | ONFINED)         |                                | STATIC WATER LEV               | EL IN CO    |                         | LL (FT)          |
| TION                             | DRILLING F.  | LUID:      | □ AIR                               | ☐ MUD          | ADDITIV   | /ES – SPE              | CIFY:            | <u> </u>                       | 1                              |             |                         |                  |
| RMA                              | DRILLING M   | ETHOD:     | ROTARY                              | П намме        | R CABLE T   | rool                   | ✓ OTHE           | R – SPECIFY: Hollow Stem Auger |                                |             |                         |                  |
| NFO                              | DEPTH (feet bgl) BORE HOLE                                 |            | CASING MATERIAL AND/OR              |                | ASING   | CASING CASING WALL S   |                  | SLOT                           |                                |             |                         |                  |
| 2. DRILLING & CASING INFORMATION | FROM   | TO         | DIAM<br>(inches)                    |                | GRADE<br>each casing string,<br>sections of screen) |                        | CON              | NECTION TYPE ling diameter)    | INSIDE DIAM. (inches)          | ТНІ         | CKNESS<br>nches)        | SIZE<br>(inches) |
| k CA                             | 0  | 108        | ±6.5                                | 1              | Boring- HSA   |                        | (aud coup        |                                |                                |             | -                       | -                |
| NG                               |  |            |                                     |                |   |                        |                  |                                |                                |             |                         |                  |
| 13                               |  |            |                                     |                |   |                        |                  |                                |                                |             |                         |                  |
| DR                               |  |            |                                     |                |   |                        |                  |                                |                                |             |                         |                  |
| 7                                |  |            |                                     | <u> </u>       |   |                        |                  |                                |                                | <u>.</u>    |                         | -                |
|                                  |  |            |                                     |                |   |                        |                  | •                              |                                |             |                         |                  |
|                                  |  |            |                                     | <u> </u>       |   |                        |                  |                                |                                | ļ           |                         |                  |
|                                  |  |            |                                     |                |   |                        |                  |                                | <u> </u>                       | -           | *                       |                  |
|                                  |  |            |                                     |                |   |                        |                  | <del></del>                    |                                |             |                         |                  |
|                                  | DEPTH  | (feet bgl) | BORE HOLE                           | L              | IST ANNULAR SI                                      | EAL MA                 | TERIAL A         | AND                            | AMOUNT                         | 1           | метно                   | D OF             |
| ANNULAR MATERIAL                 | FROM   | то         | DIAM. (inches)                      | GRA            | VEL PACK SIZE                                       | -RANG                  | E BY INTE        | ERVAL                          | (cubic feet)                   |             | PLACEN                  | MENT             |
| E                                |  |            |                                     |                |   |                        |                  |                                |                                |             | -                       |                  |
| ¥                                |  |            |                                     | <del> </del>   |   |                        |                  |                                |                                |             |                         |                  |
| 🖺                                |  |            |                                     |                | <del></del>   |                        |                  |                                |                                |             | •                       |                  |
| N.                               |  |            |                                     |                |   |                        | -                |                                |                                |             |                         | ···              |
| 3. A.                            |  | <b> </b>   |                                     |                |   |                        |                  |                                | -                              | -+          |                         |                  |
| "                                |  |            |                                     | 1              |   |                        |                  |                                |                                |             |                         |                  |
|                                  |  |            |                                     | 1              |   |                        |                  |                                |                                |             |                         | 0(15)            |
|                                  | OSE INTER  | HALUSI     | 51                                  |                | POD NO  | D. 1                   |                  | WR-2                           | WELL RECORD OF NO.             | 12 K        | version 00/3            | <u>V/1/)</u>     |

LOCATION

235-336-31 443

PAGE 2 OF 2

WELL TAG ID NO.

|   |  |              |                     |  |                                 |                           | · · · · · · · · · · · · · · · · · · ·          |                      |
|---|--|--------------|---------------------|--|---------------------------------|---------------------------|--|----------------------|
|   | DEPTH (  | feet bgl) TO | THICKNESS<br>(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) |                      |
|   | 0 15 15 Sand, fine grain, poorly graded, moist, Rede   |              |                     |  | eddish Brown                    | Y /N                      |  |                      |
|   | 15   | 40           | 25                  | Calio  | che, poorly consolidated, Tan-  | Off White                 | Y √N   |                      |
|   | 40   | 45           | 5                   | Sand,medium-fi   | ine grain, poorly graded, trace | caliche, Light Brown      | Y √N   |                      |
|   | 45   | 50           | 5                   | Clayey Sand, fine- n   | nedium grain , poorly graded,   | cohesive, Reddish Bro     | own Y ✓N                                       |                      |
|   | 50   | 55           | 5                   | Sandy Clay, fine- m  | nedium grain , poorly graded, o | ohesive, Reddish Bro      | own Y ✓N                                       |                      |
| Į,  | 55   | 70           | 15                  | Claystone, poorly cemented, cohesive, Reddish brown,   |                                 |                           | Y VN   |                      |
| WEL   | 70   | 75           | 5                   | Clayey Sand, me  | edium grain, poorly graded, co  | ohesive, Light Brown      | Y √N   |                      |
| OF  | 75   | 80           | 5                   | Silty Sand, fine- v  | very finegrain, poorly graded,  | cohesive, Light Brow      | n Y ✓N   |                      |
| ,0G   | 80   | 85           | 5                   | Clayey Sand, fine-   | medium grain , poorly graded    | , cohesive, Light Brow    | wn Y √N  |                      |
| ICI   | 85   | 100          | 15                  | Sandy Cl   | lay, poorly graded, cohesive, R | eddish Brown              | Y VN   |                      |
| HYDROGEOLOGIC LOG OF WELL   | 100  | 105          | 5                   | Clay, low p  | plasticity, cohesive, Brown-Bl  | ueish Gray, Dry           | Y √N   |                      |
| EO  | 105  | 108          | 3                   | Claystone,   | poorly cemented, cohesive,Re    | ddish brown,dry           | Y √N   |                      |
| ROG   |  |              |                     |  |                                 |                           | Y N  |                      |
| 2   |  |              |                     |  |                                 |                           | Y N  |                      |
| 4   |  |              |                     |  |                                 |                           | Y N  |                      |
|   |  |              |                     |  |                                 |                           | Y N  |                      |
|   |  |              |                     |  |                                 |                           | Y N  |                      |
|   |  |              |                     | -  |                                 |                           | Y N  |                      |
|   |  |              |                     |  |                                 |                           | Y N  |                      |
|   |  | i            |                     |  |                                 | · <del> </del>            | Y N  |                      |
|   |  |              |                     |  |                                 |                           | Y N  |                      |
|   | METHOD U   | SED TO ES    | TIMATE YIELD        | OF WATER-BEARIN  | IG STRATA:                      |                           | TOTAL ESTIMATED                                | •                    |
| PUMP AIR LIFT BAILER OTHER - SPECIFY:                             |  |              |                     |  |                                 | WELL YIELD (gpm):         | 0.00   |                      |
| 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. |              |                     |  |                                 |                           |  |                      |
| ST; RIG SU  | Logs adapted from WSP on-site geologist.   |              |                     |  |                                 |                           |  |                      |
| 5. TE   | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:  Shane Eldridge, Carmelo Trevino, Cameron Pruitt   |              |                     |  |                                 |                           |  |                      |
| 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:  |              |                     |  |                                 |                           |  |                      |
| e. SIGN   | Jack Atkins  Jackie D. Atkins  |              |                     |  |                                 |                           | 08/13/2021                                     |                      |
|   |  | SIGNAT       | URE OF DRILLE       | ER / PRINT SIGNEE  | NAME                            |                           | DATE   |                      |
| FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/30/2017) |  |              |                     |  |                                 |                           |  |                      |
|   | ENO. C_  | 445          |                     |  | POD NO.                         | TRN NO.                   | 60040 X  | C. 61011 00/30/2011) |
| <b>-</b>  | <del></del>  | <u> </u>     |                     |  | ·                               |                           |  |                      |

LOCATION 235-33E-31



# Mis Amigos CTB Nearest Watercourse 1.72



September 20, 2023

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

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 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

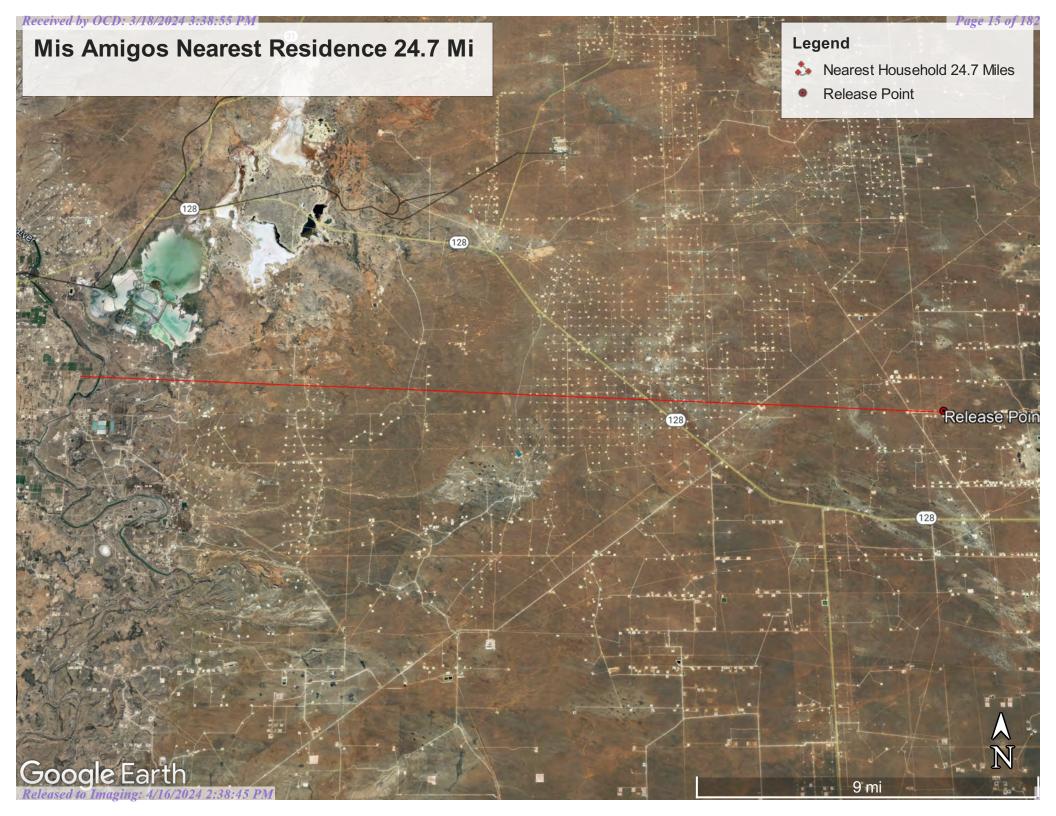
Freshwater Pond

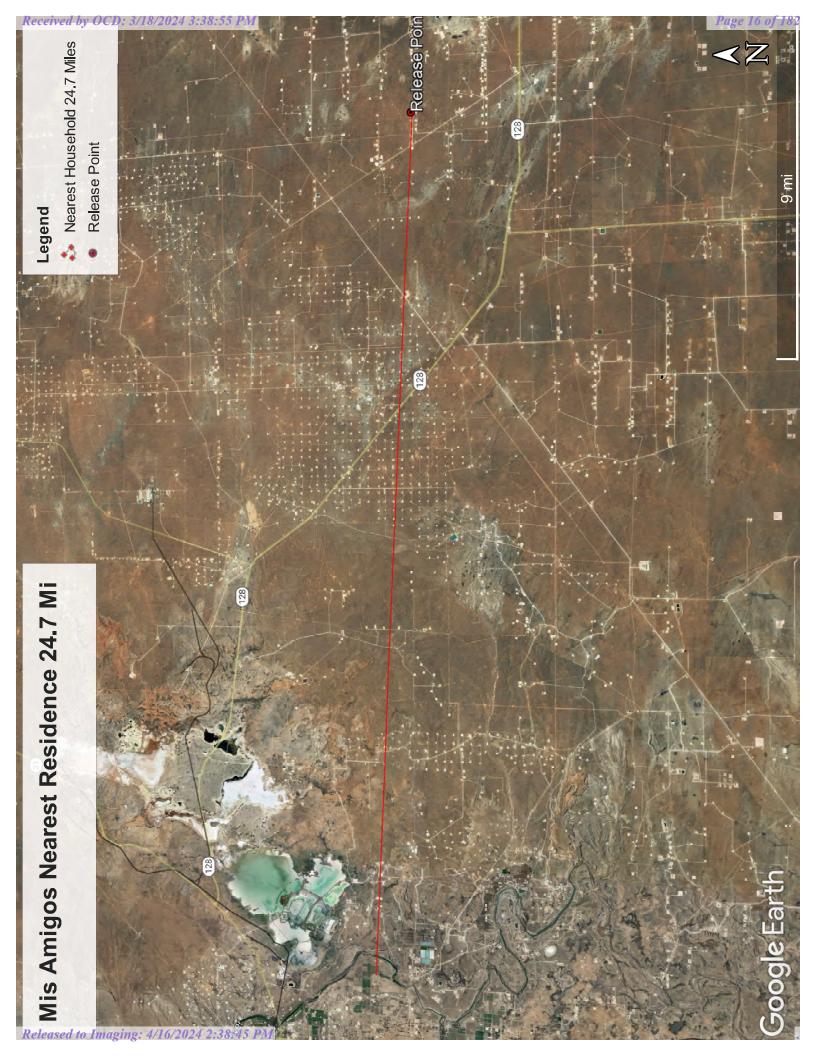
Lake

Riverine

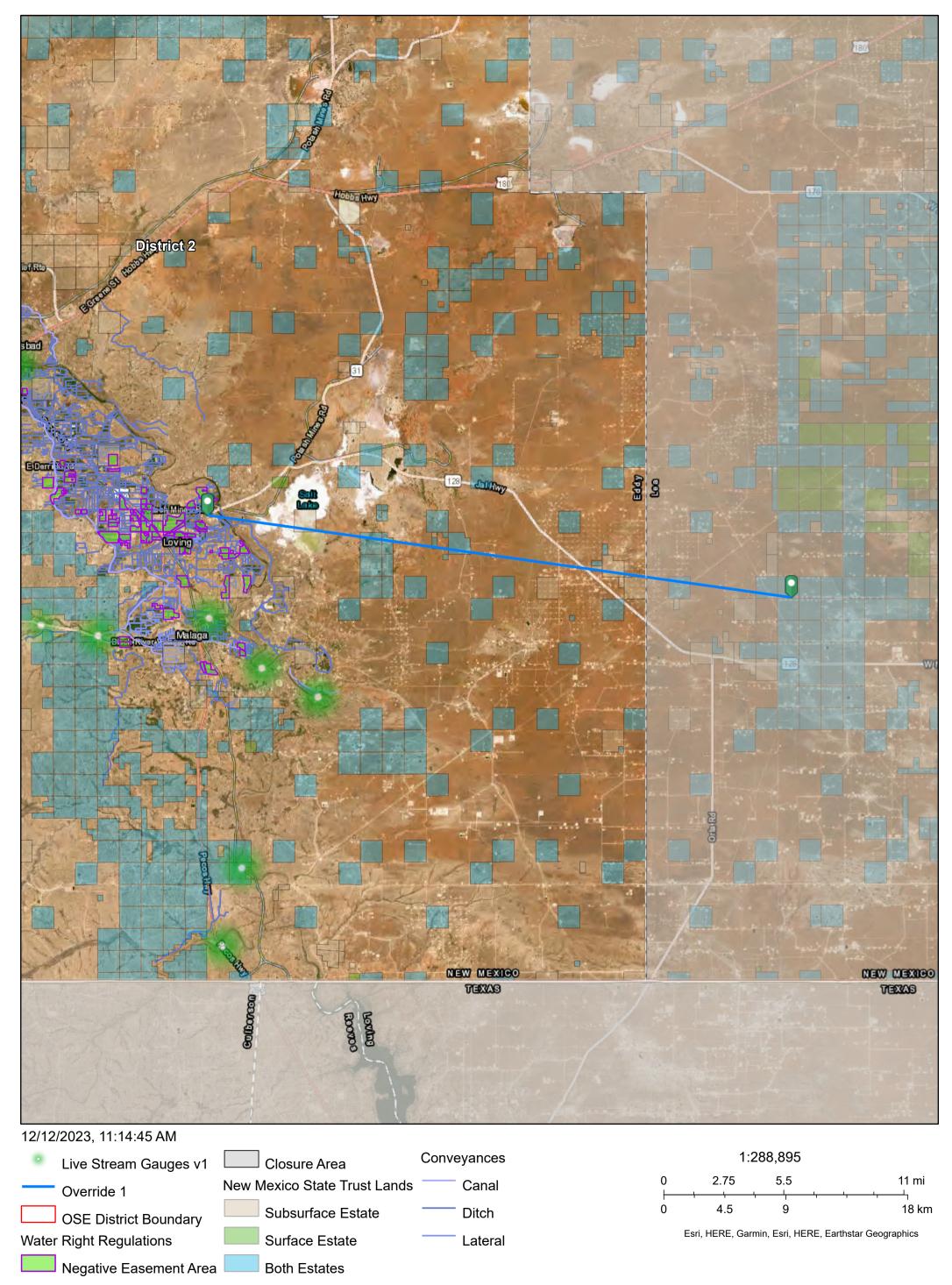
Other

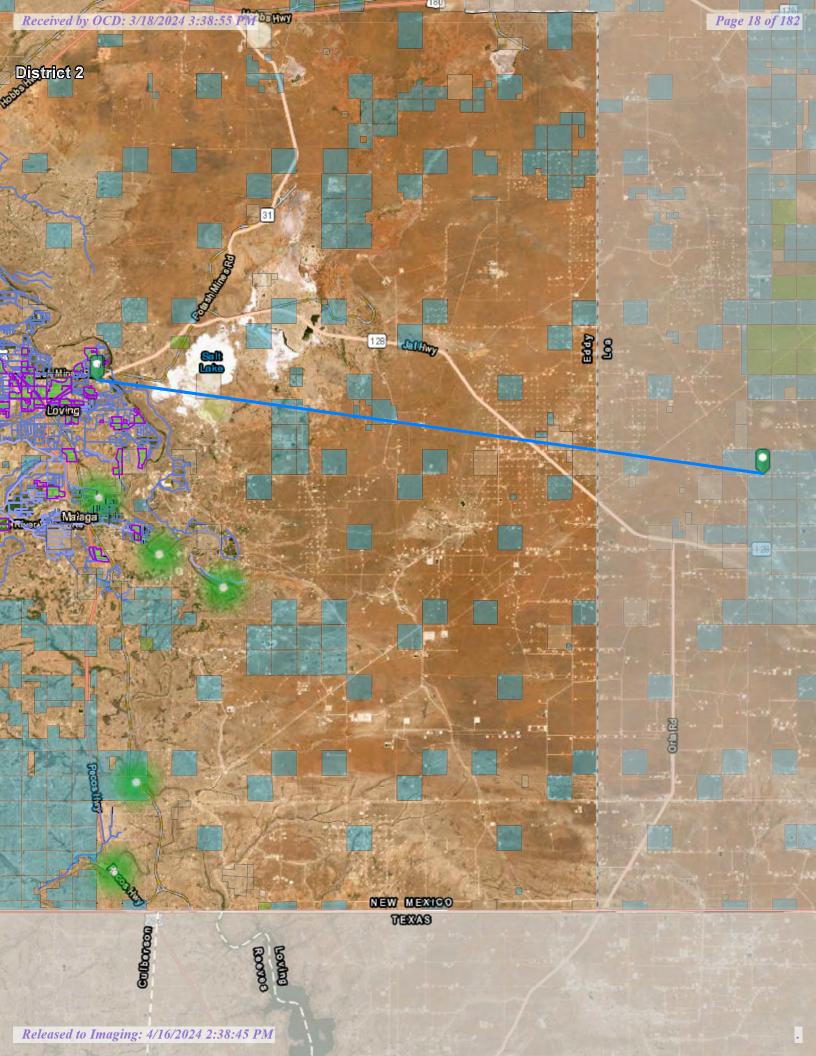
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

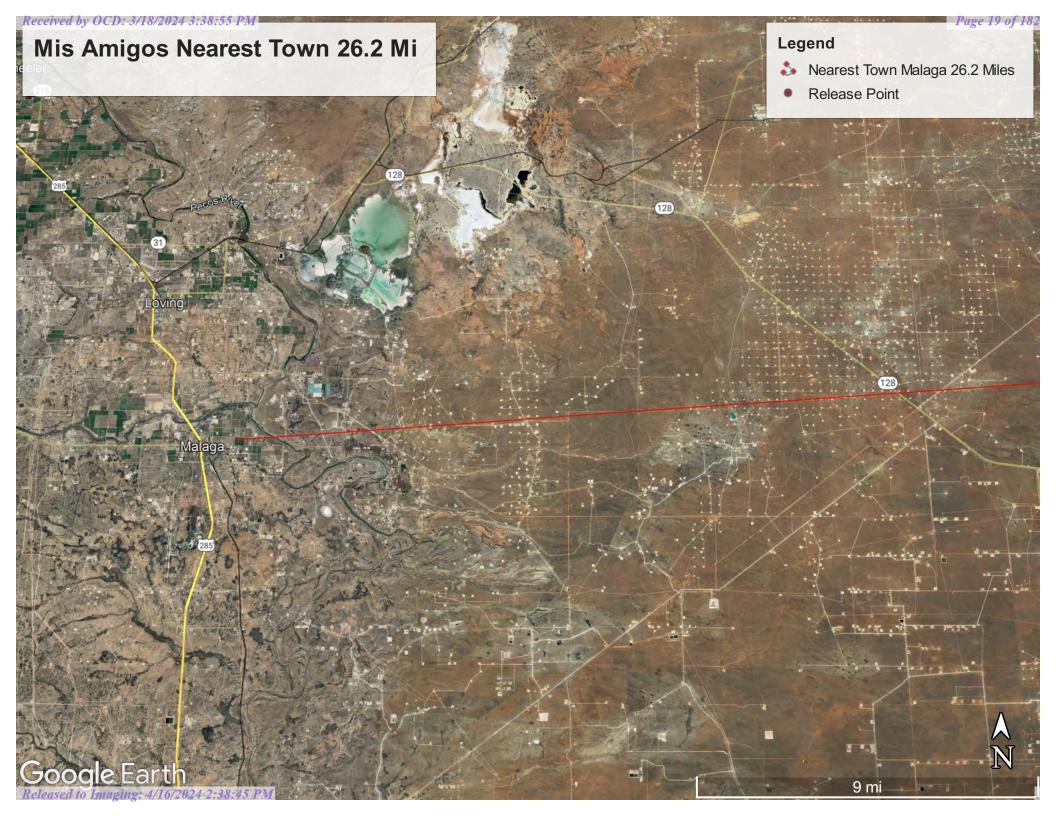


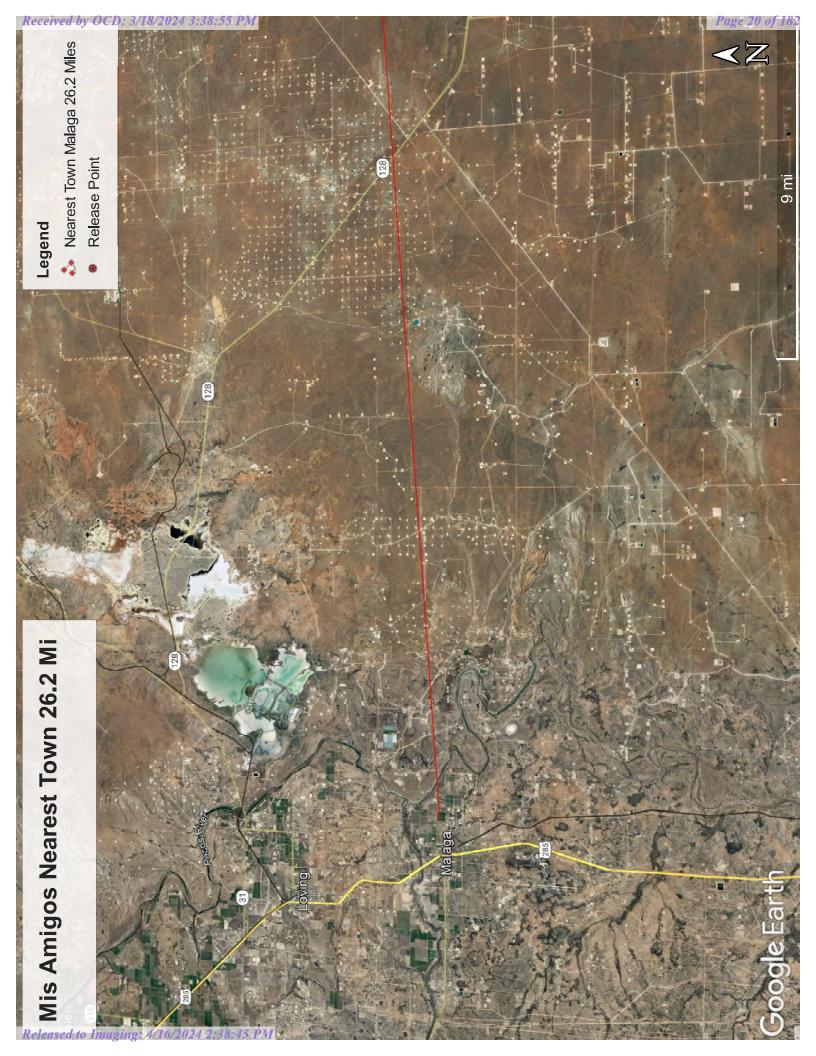


# Mis Amigos Closest Domestic Well











# 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

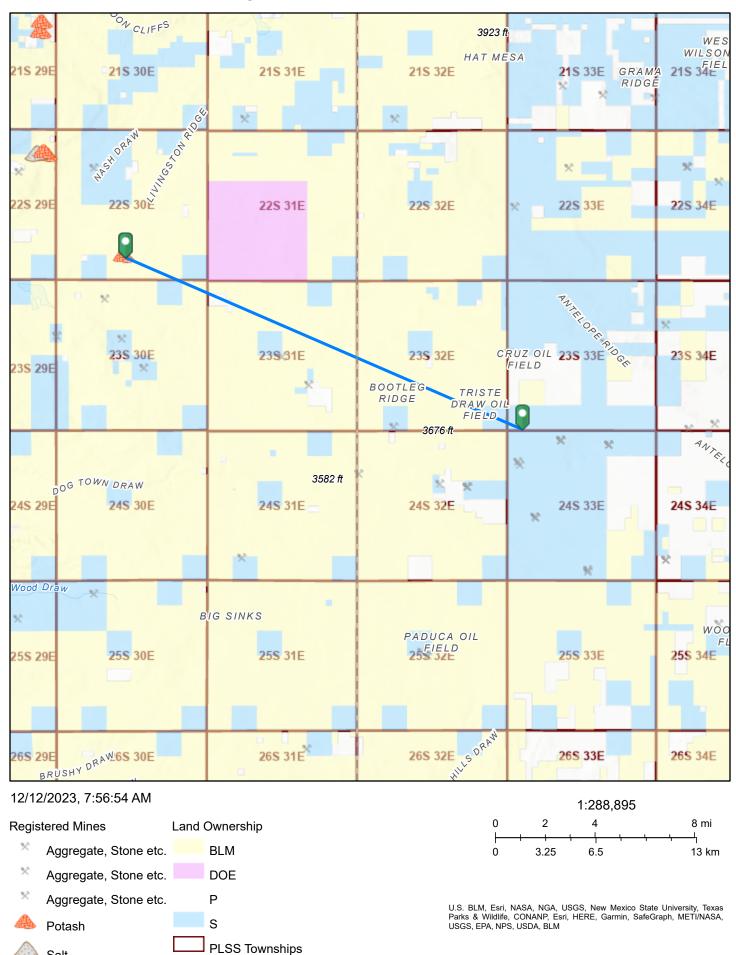
Other

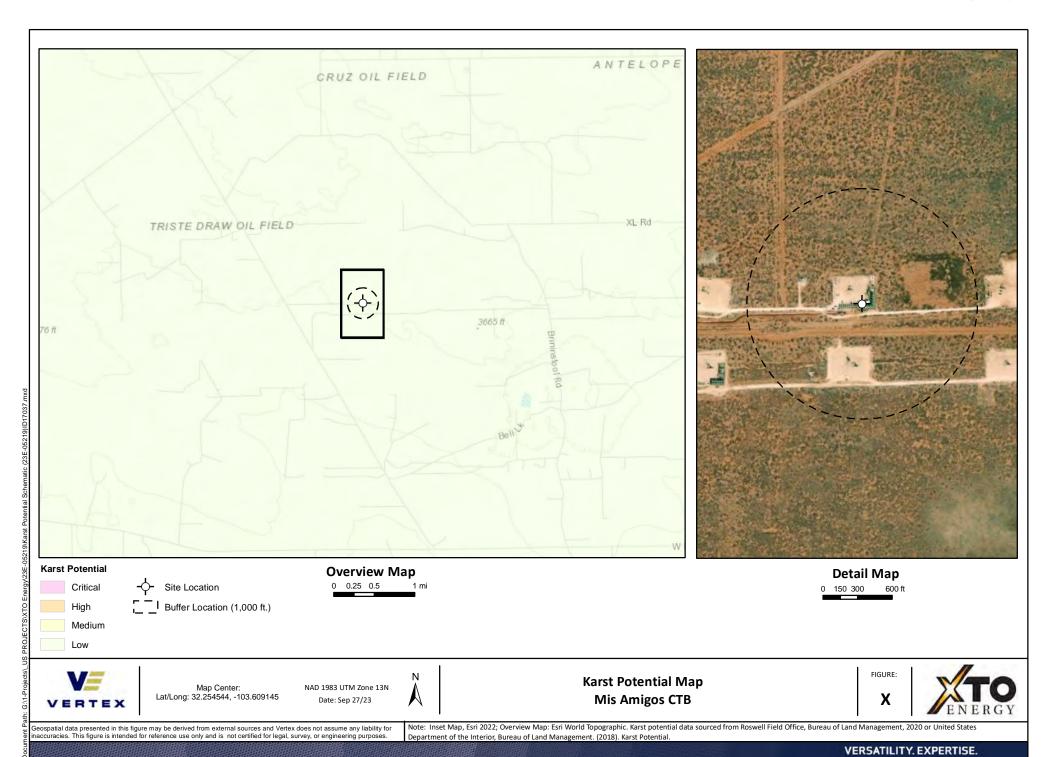
Riverine

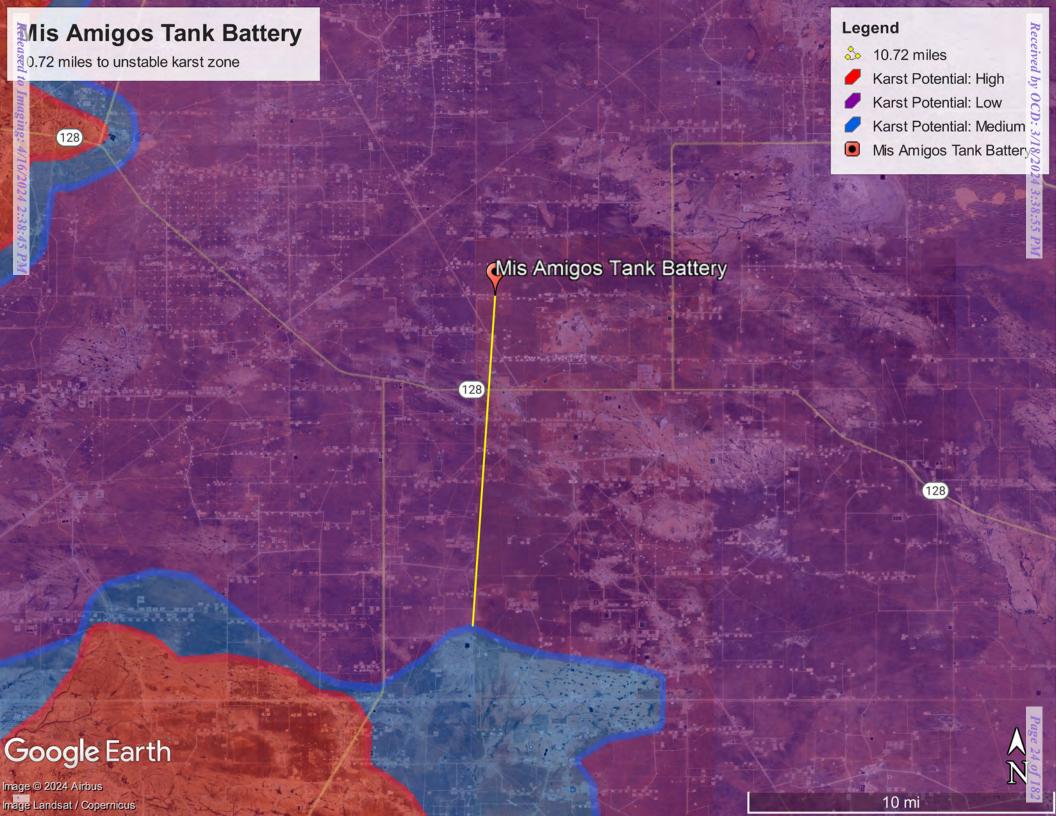


This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# Mis Amigos/Subsurface Mine 17.4 Miles

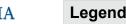




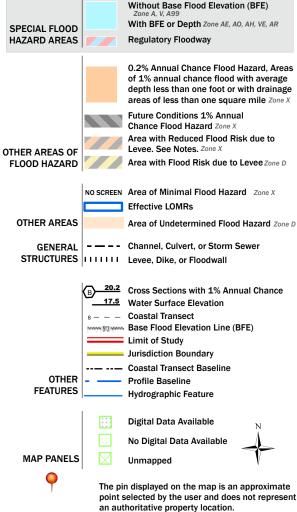


# National Flood Hazard Layer FIRMette





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



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.



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**VRCS** 

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for Lea County, New Mexico

Mis Amigos CTB Soil Map



## **Preface**

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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# **Contents**

| Preface                          |  |
|----------------------------------|--|
| How Soil Surveys Are Made        |  |
| Soil Map                         |  |
| Soil Map                         |  |
| Legend                           |  |
| Map Unit Legend                  |  |
| Map Unit Descriptions            |  |
| Lea County, New Mexico           |  |
| PU—Pyote and Maljamar fine sands |  |
| References                       |  |

# **How Soil Surveys Are Made**

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

#### Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

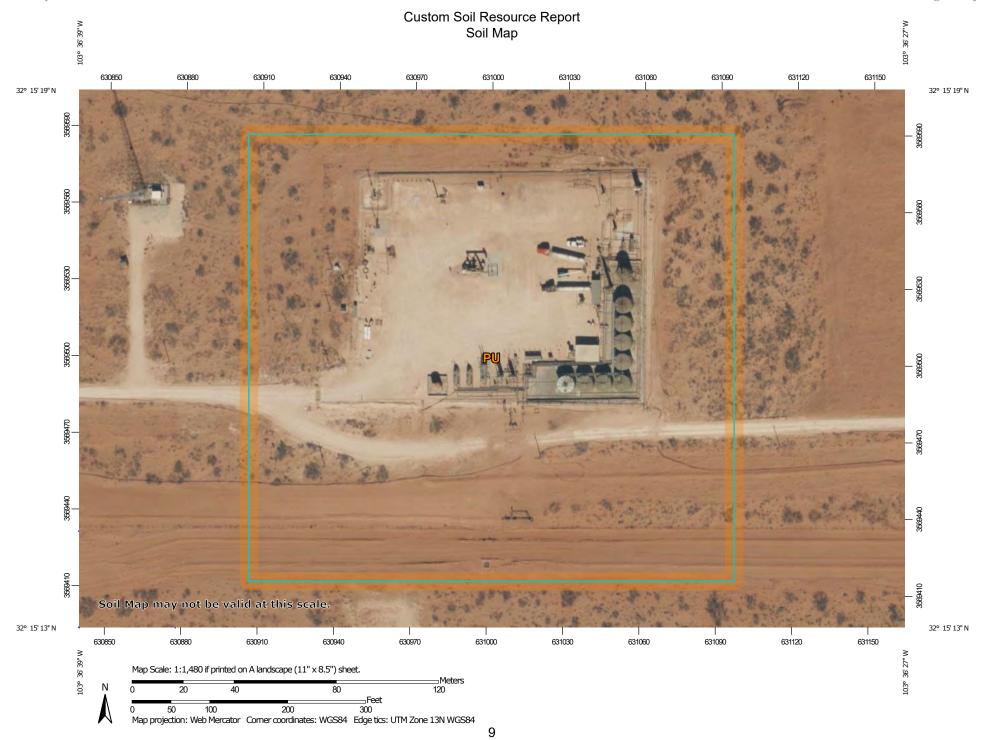
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

#### Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



#### Custom Soil Resource Report

#### MAP LEGEND

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**Water Features** 

Transportation

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00

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

**US Routes** 

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Map Unit Polygons

-

Soil Map Unit Lines

Soil Map Unit Points

#### **Special Point Features**

(0)

Blowout

 $\boxtimes$ 

Borrow Pit

Ж

Clay Spot

 $\Diamond$ 

Closed Depression

×

**Gravel Pit** 

. (

**Gravelly Spot** 

0

Landfill

٨

Lava Flow

Marsh or swamp

2

Mine or Quarry

\_

Miscellaneous Water

0

Perennial Water

0

Rock Outcrop

+

Saline Spot

. .

Sandy Spot

. .

Severely Eroded Spot

\_

Sinkhole

6

Slide or Slip

Ø

Sodic Spot

#### MAP INFORMATION

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

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

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

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

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

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 19, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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

## Map Unit Legend

| Map Unit Symbol             | Map Unit Name                 | Acres in AOI | Percent of AOI |
|-----------------------------|-------------------------------|--------------|----------------|
| PU                          | Pyote and Maljamar fine sands | 8.3          | 100.0%         |
| Totals for Area of Interest |                               | 8.3          | 100.0%         |

## **Map Unit Descriptions**

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## Lea County, New Mexico

#### PU—Pyote and Maljamar fine sands

#### **Map Unit Setting**

National map unit symbol: dmqq Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

#### **Map Unit Composition**

Pyote and similar soils: 46 percent Maljamar and similar soils: 44 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Estimates are based on observations, descriptions, and transects of the mapur

#### **Description of Pyote**

#### Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

#### Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 inches: fine sandy loam

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

#### Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

#### **Description of Maljamar**

#### Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

#### **Typical profile**

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

#### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 40 to 60 inches to petrocalcic

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.6 inches)

#### Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

#### **Minor Components**

#### **Kermit**

Percent of map unit: 10 percent

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

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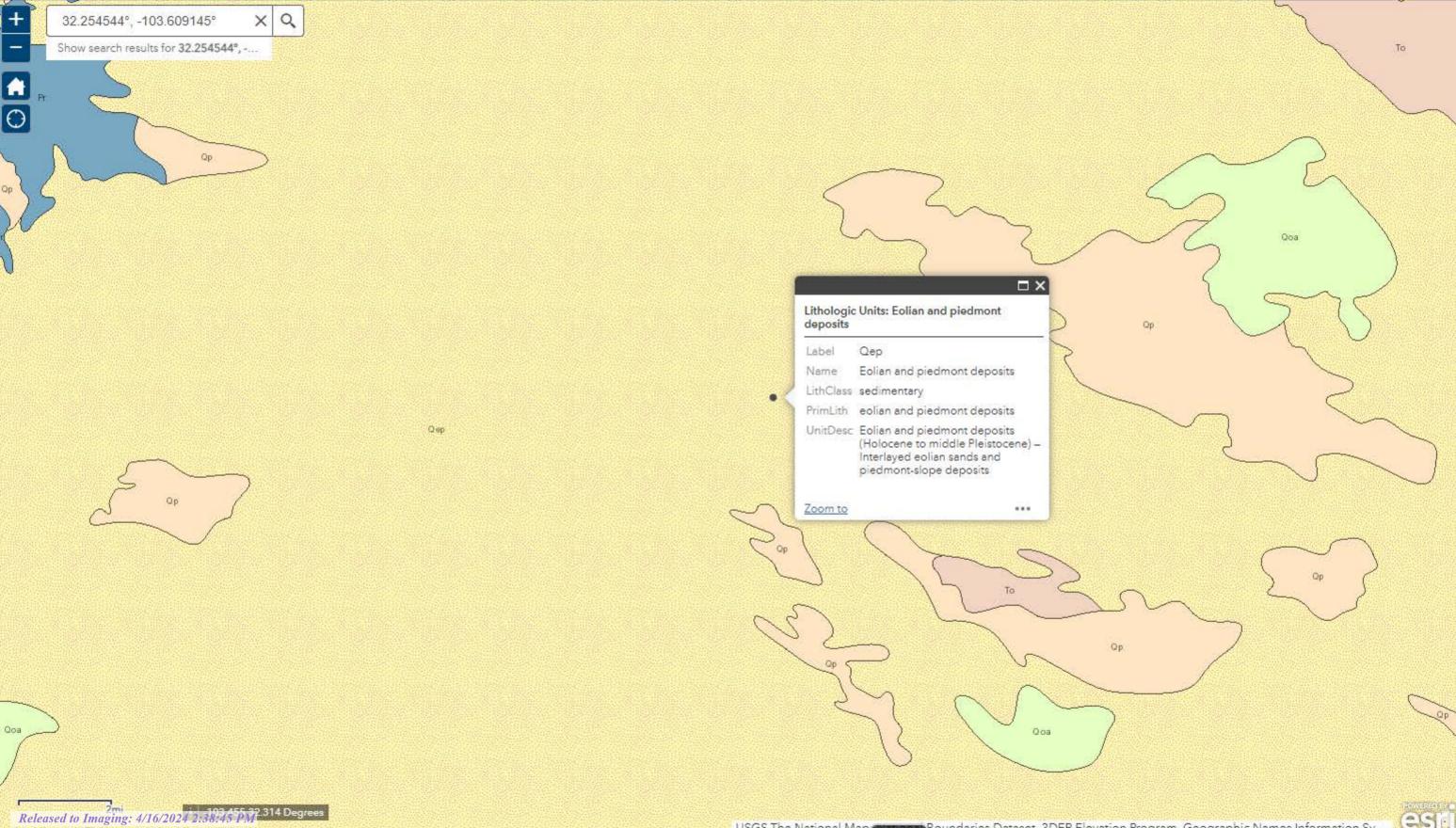
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Received by Oco Mis Joses 38:35 Man Resources Map



Page 42 of 182

## **ATTACHMENT 3**

**Client Name: XTO** 

Site Name: Mis Amigos Tank Battey
NMOCD Tracking #: nAPP2335431615

Project #: 23E-05219

Lab Reports: 890-61176-1, 890-6178-1, 890-6296-1

|           | Table         | e 2. Initial Characte                  | rization S                          | ample Fie                                  | ld Screen a            | and Labor | atory Resu   | ılts - Dept                               | h to Grour                              | ndwater </th <th>50 feet bg</th> <th>S</th> <th></th> | 50 feet bg | S  |                         |
|-----------|---------------|--|-------------------------------------|--|------------------------|-----------|--------------|---|---|---|------------|--|-------------------------|
| :         | Sample Descri |  |                                     | eld Screeni                                |                        |           | ,            |   | eum Hydro                               |   |            | _  |                         |
|           | •             |  |                                     |  |                        | Vol       | atile        |   | •                                       | Extractable   | :          |  | Inorganic               |
| Sample ID | Depth (ft)    | Sample Date                            | Volatile Organic Compounds<br>(PID) | Extractable Organic  Gompounds (PetroFlag) | Chloride Concentration | Benzene   | BTEX (Total) | ട്ട<br>Gasoline Range Organics<br>ജ (GRO) | ച്ച Diesel Range Organics<br>ജ<br>(DRO) | স<br>Motor Oil Range Organics<br>জি (MRO)             | (mg/kg)    | ට Total Petroleum<br>සි Hydrocarbons (TPH) | B)<br>(S)<br>(S)<br>(S) |
|           | 0             | February 12, 2024                      | (ppiii)<br>-                        | ( <b>pp</b> iii)<br>68                     | 160                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 100                     |
| BH24-01   | 2             | February 12, 2024                      | -                                   | 0  | 88                     | ND<br>ND  | ND           | ND<br>ND                                  | ND<br>ND                                | ND  | ND         | ND<br>ND                                   | 61.2                    |
|           | 4             | February 12, 2024                      | -                                   | 0  | 85                     | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | ND                      |
|           | 0             | February 12, 2024                      | -                                   | 14   | 355                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 157                     |
| BH24-02   | 2             | February 12, 2024                      | -                                   | 2  | 223                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 76                      |
|           | 4             | February 12, 2024                      | -                                   | 0  | 50                     | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 235                     |
|           | 0             | February 12, 2024                      | -                                   | 22   | 525                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 107                     |
| BH24-03   | 2             | February 12, 2024                      | -                                   | 17   | 204                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 91                      |
|           | 4             | February 12, 2024                      | -                                   | 2  | 75                     | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 110                     |
|           | 0             | February 12, 2024                      | -                                   | 2  | 60                     | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 71.2                    |
| BH24-04   | 2             | February 12, 2024                      | -                                   | 0  | 55                     | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 80.7                    |
|           | 4             | February 12, 2024                      | -                                   | 0  | 50                     | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 114                     |
| _         | 0             | February 13, 2024                      | -                                   | 72   | 165                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 74.3                    |
| BH24-05   | 2             | February 13, 2024                      | -                                   | 2  | 75                     | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 81.4                    |
|           | 4             | February 13, 2024                      | -                                   | 0  | 90                     | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 116                     |
| 21124.05  | 0             | February 13, 2024                      | -                                   | 32   | 250                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 122                     |
| BH24-06   | 2             | February 13, 2024                      | -                                   | 0  | 120                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 98                      |
|           | 4             | February 13, 2024                      | -                                   | 5  | 110                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 99.7                    |
| BH24-07   | 0             | February 13, 2024                      | -                                   | 14   | 275                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 86                      |
| ВП24-07   | 2<br>4        | February 13, 2024<br>February 13, 2024 | -                                   | 0  | 155<br>135             | ND<br>ND  | ND<br>ND     | ND<br>ND                                  | ND<br>ND                                | ND<br>ND  | ND<br>ND   | ND<br>ND                                   | 74<br>74                |
|           | 0             | February 13, 2024                      |                                     | 44   | 310                    | ND<br>ND  | ND<br>ND     | ND<br>ND                                  | ND<br>ND                                | ND  | ND<br>ND   | ND<br>ND                                   | 81                      |
| BH24-08   | 2             | February 13, 2024                      | -                                   | 8  | 170                    | ND<br>ND  | ND<br>ND     | ND<br>ND                                  | ND<br>ND                                | ND<br>ND  | ND<br>ND   | ND<br>ND                                   | 66                      |
| B1124 00  | 4             | February 13, 2024                      |                                     | 0  | 162                    | ND        | ND           | ND  | ND<br>ND                                | ND  | ND         | ND<br>ND                                   | 71                      |
|           | 0             | February 27, 2024                      | _                                   | 42   | 246                    |           | 110          | 110                                       | 110                                     | 110   | 110        | 110  | , =                     |
| BH24-09   | 2             | February 27, 2024                      | _                                   | 39   | 0                      | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 113                     |
| 51124.40  | 0             | February 27, 2024                      | _                                   | 232  | 443                    | -         | -            | -   | -                                       | -   | -          | -  | -                       |
| BH24-10   | 2             | February 27, 2024                      | -                                   | 47   | 225                    | -         | -            | -   | -                                       | -   | -          | -  | -                       |
| DU24 11   | 0             | February 27, 2024                      | -                                   | 431  | 1                      | ND        | ND           | ND  | 60.7                                    | ND  | 60.7       | 60.7                                       | 202                     |
| BH24-11   | 2             | February 27, 2024                      | -                                   | 38   | 0                      | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 78                      |
|           | 0             | February 27, 2024                      | -                                   | -  | 4,529                  | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 7030                    |
|           | 2             | February 28, 2024                      | -                                   | -  | 2,235                  | -         | -            | -   | -                                       | -   | -          | -  | -                       |
| BH24-12   | 4             | February 28, 2024                      | -                                   | -  | 3,260                  | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 2860                    |
|           | 6             | February 28, 2024                      | -                                   | -  | 4,049                  | -         | -            | -   | -                                       | -   | -          | -  | -                       |
|           | 8             | February 28, 2024                      | -                                   | -  | 2,462                  | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 2620                    |
| BH24-13   | 0             | February 28, 2024                      | -                                   | 47   | 209                    | ND        | ND           | ND  | ND<br>ND                                | ND<br>ND  | ND         | ND<br>ND                                   | 80                      |
|           | 2             | February 28, 2024                      | -                                   | 34   | 189                    | ND<br>ND  | ND           | ND  | ND<br>ND                                | ND  | ND         | ND<br>ND                                   | 91                      |
| BH24-14   | 0 2           | February 28, 2024                      | -                                   | 49<br>27                                   | 228<br>241             | ND        | ND<br>ND     | ND<br>ND                                  | ND<br>ND                                | ND<br>ND  | ND<br>ND   | ND<br>ND                                   | 73<br>44                |
|           | 0             | February 28, 2024<br>February 28, 2024 |                                     | 37   | 7,741                  | ND<br>ND  | ND           | ND<br>ND                                  | ND<br>ND                                | ND<br>ND  | ND<br>ND   | ND<br>ND                                   | 8820                    |
| BH24-15   | 2             | February 28, 2024                      | -                                   | 17   | 219                    | ND<br>ND  | ND<br>ND     | ND<br>ND                                  | ND<br>ND                                | ND<br>ND  | ND<br>ND   | ND<br>ND                                   | 8820<br>81              |
|           | 0             | February 28, 2024                      |                                     | -  | 2,791                  | -         | -            | -   | -                                       | -   | -          | -  | - 01                    |
| BH24-16   | 2             | February 28, 2024                      | -                                   | -  | 383                    | -         | -            | -   | -                                       | -   | -          | -  | -                       |
| 51.5      | 0             | February 29, 2024                      | _                                   | 47   | 12,302                 | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 12000                   |
| BH24-17   | 2             | February 29, 2024                      | -                                   | 23   | 284                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 371                     |
| DU24.40   | 0             | February 29, 2024                      |                                     | 130  | 287                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 234                     |
| BH24-18   | 2             | February 29, 2024                      | -                                   | 35   | 279                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 358                     |
| BH24-19   | 0             | February 29, 2024                      | -                                   | 46   | 583                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 380                     |
| р⊓∠4-19   | 2             | February 29, 2024                      | -                                   | 34   | 150                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 140                     |
| BH24-20   | 0             | February 29, 2024                      | -                                   | 208  | 15,244                 | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 14300                   |
| -112 T 20 | 2             | February 29, 2024                      | -                                   | 22   | 334                    | ND        | ND           | ND  | ND                                      | ND  | ND         | ND   | 253                     |



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



<sup>&</sup>quot;ND" Not Detected at the Reporting Limit

<sup>&</sup>quot;-" indicates not analyzed/assessed

**Environment Testing** 

## **ANALYTICAL REPORT**

## PREPARED FOR

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

Generated 2/22/2024 11:59:25 AM

## **JOB DESCRIPTION**

Mis Amigos 23E-05219

## **JOB NUMBER**

890-6176-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



## **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 2/22/2024 11:59:25 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Vertex Laboratory Job ID: 890-6176-1 Project/Site: Mis Amigos SDG: 23E-05219

# **Table of Contents**

| Cover Page             | 1  |
|------------------------|----|
| Table of Contents      | 3  |
| Definitions/Glossary   | 4  |
| Case Narrative         | 5  |
| Client Sample Results  | 6  |
| Surrogate Summary      | 15 |
| QC Sample Results      | 17 |
| QC Association Summary | 23 |
| Lab Chronicle          | 27 |
| Certification Summary  | 31 |
| Method Summary         | 32 |
| Sample Summary         | 33 |
|                        | 34 |
| Receipt Checklists     | 36 |

### **Definitions/Glossary**

Client: Vertex Job ID: 890-6176-1 Project/Site: Mis Amigos

SDG: 23E-05219

#### **Qualifiers**

**GC VOA** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

#### **GC Semi VOA**

| Qualifier | Qualifier Description                                    |
|-----------|--|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD 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. |
| HPI C/IC  |  |

| Qualifier | Qualifier Description                                 |
|-----------|---|
| 11        | Indicates the analyte was analyzed for but not detect |

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)   |
| MCI            | FDA recommended "Mayimum Conteminant Level"   |

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 Positive / Present POS **Practical Quantitation Limit** PQL

**PRES** Presumptive **Quality Control** QC

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)

Too Numerous To Count TNTC

#### Case Narrative

Client: Vertex Job ID: 890-6176-1 Project: Mis Amigos

**Eurofins Carlsbad** Job ID: 890-6176-1

#### Job Narrative 890-6176-1

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
- 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 2/14/2024 8:28 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 0.2°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH24-01 0 (890-6176-1), BH24-01 (890-6176-2), BH24-01 4 (890-6176-3), BH24-02 0 (890-6176-4), BH24-02 2 (890-6176-5), BH24-02 4 (890-6176-6), BH24-03 0 (890-6176-7), BH24-03 2 (890-6176-8), BH24-03 4 (890-6176-9), BH24-04 0 (890-6176-10), BH24-04 (890-6176-11) and BH24-04 4 (890-6176-12).

#### **GC VOA**

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73799 recovered above the upper control limit for Benzene. 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 880-73799/2).

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 880-73298 and analytical batch 880-73414 was outside the upper control limits.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-73298 and analytical batch 880-73414 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-73300 and analytical batch 880-73423 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: BH24-01 4 (890-6176-3), BH24-03 0 (890-6176-7), BH24-03 2 (890-6176-8), (890-6178-A-1-G MS) and (890-6178-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73300 and analytical batch 880-73423 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.

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 Job ID: 890-6176-1 Project/Site: Mis Amigos SDG: 23E-05219

Client Sample ID: BH24-01 0

Lab Sample ID: 890-6176-1 Date Collected: 02/12/24 09:40 Matrix: Solid

| Method: SW846 8021B - Volati<br>Analyte |                   | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fa  |
|---|-------------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene                                 |                   |             | 0.00199  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 19:05 |         |
| Toluene                                 | <0.00199          |             | 0.00199  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 19:05 |         |
| Ethylbenzene                            | <0.00199          |             | 0.00199  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 19:05 |         |
| m-Xylene & p-Xylene                     | <0.00398          |             | 0.00398  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 19:05 | ,       |
| o-Xylene                                | <0.00199          | U           | 0.00199  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 19:05 |         |
| Xylenes, Total                          | <0.00398          | U           | 0.00398  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 19:05 |         |
| Surrogate                               | %Recovery         | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fa  |
| 4-Bromofluorobenzene (Surr)             | 91                |             | 70 - 130 |       |   | 02/15/24 15:33 | 02/21/24 19:05 |         |
| 1,4-Difluorobenzene (Surr)              | 107               |             | 70 - 130 |       |   | 02/15/24 15:33 | 02/21/24 19:05 | •       |
| Method: TAL SOP Total BTEX              | - Total BTEX Cald | culation    |          |       |   |                |                |         |
| Analyte                                 | Result            | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total BTEX                              | <0.00398          | U           | 0.00398  | mg/Kg |   |                | 02/21/24 19:05 |         |
| -<br>Method: SW846 8015 NM - Die        | esel Range Organ  | ics (DRO) ( | GC)      |       |   |                |                |         |
| Analyte                                 | •                 | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Analyte                                 |                   |             |          |       |   |                |                |         |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <49.6 U Gasoline Range Organics 49.6 02/15/24 17:26 02/20/24 02:38 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.6 U 49.6 mg/Kg 02/15/24 17:26 02/20/24 02:38 C10-C28) Oll Range Organics (Over C28-C36) <49.6 U 49.6 mg/Kg 02/15/24 17:26 02/20/24 02:38 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 81 70 - 130 02/15/24 17:26 02/20/24 02:38 70 - 130 02/15/24 17:26 85 02/20/24 02:38 o-Terphenyl

| Method: EPA 300.0 - Anions, Ion C | hromatograp | hy - Solubl | 9    |       |   |          |                |         |
|-----------------------------------|-------------|-------------|------|-------|---|----------|----------------|---------|
| Analyte                           | Result      | Qualifier   | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                          | 100         |             | 5.02 | mg/Kg |   |          | 02/17/24 02:06 | 1       |

Client Sample ID: BH24-01 Lab Sample ID: 890-6176-2

Date Collected: 02/12/24 09:50 **Matrix: Solid** Date Received: 02/14/24 08:28

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 19:26 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 19:26 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 19:26 | 1       |
| m-Xylene & p-Xylene         | <0.00396  | U         | 0.00396  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 19:26 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 19:26 | 1       |
| Xylenes, Total              | <0.00396  | U         | 0.00396  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 19:26 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 85        |           | 70 - 130 |       |   | 02/15/24 15:33 | 02/21/24 19:26 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107       |           | 70 - 130 |       |   | 02/15/24 15:33 | 02/21/24 19:26 | 1       |

## **Client Sample Results**

Client: Vertex Job ID: 890-6176-1 Project/Site: Mis Amigos SDG: 23E-05219

Client Sample ID: BH24-01

Lab Sample ID: 890-6176-2 Date Collected: 02/12/24 09:50 Matrix: Solid

Date Received: 02/14/24 08:28

| Analyte                           | Result        | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Total BTEX                        | <0.00396      | U           | 0.00396  | mg/Kg |   |                | 02/21/24 19:26 | 1       |
| Method: SW846 8015 NM - Diesel    | Range Organ   | ics (DRO) ( | GC)      |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                         | <50.3         | U           | 50.3     | mg/Kg |   |                | 02/20/24 03:00 | 1       |
| Method: SW846 8015B NM - Dies     | el Range Orga | nics (DRO)  | (GC)     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics           | <50.3         | U           | 50.3     | mg/Kg |   | 02/15/24 17:26 | 02/20/24 03:00 | 1       |
| (GRO)-C6-C10                      |               |             |          |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.3         | U           | 50.3     | mg/Kg |   | 02/15/24 17:26 | 02/20/24 03:00 | 1       |
| C10-C28)                          |               |             |          |       |   |                |                |         |
| OII Range Organics (Over C28-C36) | <50.3         | U           | 50.3     | mg/Kg |   | 02/15/24 17:26 | 02/20/24 03:00 | 1       |
| Surrogate                         | %Recovery     | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 72            |             | 70 - 130 |       |   | 02/15/24 17:26 | 02/20/24 03:00 | 1       |
| o-Terphenyl                       | 71            |             | 70 - 130 |       |   | 02/15/24 17:26 | 02/20/24 03:00 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp  | hy - Solubl | e        |       |   |                |                |         |
| Analyte                           | •             | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                          | 61.2          | -           | 4.99     | mg/Kg |   |                | 02/17/24 02:10 |         |

Lab Sample ID: 890-6176-3 Client Sample ID: BH24-01 Date Collected: 02/12/24 10:00 **Matrix: Solid** 

Date Received: 02/14/24 08:28

| Method: SW846 8021B - Volati<br>Analyte  | •   | Qualifier   | RL                       | Unit               | D        | Prepared                | Analyzed   | Dil Fac |
|--|---|---|--------------------------|--------------------|----------|-------------------------|--|---------|
| Benzene  | <0.00202  | U   | 0.00202                  | mg/Kg              |          | 02/15/24 15:33          | 02/21/24 19:47                                   | 1       |
| Toluene  | <0.00202  | U   | 0.00202                  | mg/Kg              |          | 02/15/24 15:33          | 02/21/24 19:47                                   |         |
| Ethylbenzene   | <0.00202  | U   | 0.00202                  | mg/Kg              |          | 02/15/24 15:33          | 02/21/24 19:47                                   |         |
| m-Xylene & p-Xylene  | <0.00404  | U   | 0.00404                  | mg/Kg              |          | 02/15/24 15:33          | 02/21/24 19:47                                   |         |
| o-Xylene   | <0.00202  | U   | 0.00202                  | mg/Kg              |          | 02/15/24 15:33          | 02/21/24 19:47                                   | 1       |
| Xylenes, Total   | <0.00404  | U   | 0.00404                  | mg/Kg              |          | 02/15/24 15:33          | 02/21/24 19:47                                   | 1       |
| Surrogate  | %Recovery   | Qualifier   | Limits                   |                    |          | Prepared                | Analyzed   | Dil Fac |
| 4-Bromofluorobenzene (Surr)  | 95  |   | 70 - 130                 |                    |          | 02/15/24 15:33          | 02/21/24 19:47                                   | 1       |
|  | 400   |   | 70 400                   |                    |          |                         | 00/04/04 40:47                                   |         |
| 1,4-Difluorobenzene (Surr)   | 109   |   | 70 - 130                 |                    |          | 02/15/24 15:33          | 02/21/24 19:47                                   | ,       |
| Method: TAL SOP Total BTEX   | - Total BTEX Cald   |   |                          |                    |          |                         |  |         |
| Method: TAL SOP Total BTEX Analyte   | - Total BTEX Cald   | Qualifier   | RL                       | Unit               | <u>D</u> | 02/15/24 15:33 Prepared | Analyzed   |         |
|  | - Total BTEX Cald   | Qualifier   |                          | Unit<br>mg/Kg      | <u>D</u> |                         |  | ,       |
| Method: TAL SOP Total BTEX Analyte Total BTEX  | - Total BTEX Calc<br>Result<br><0.00404                         | <b>Qualifier</b><br>U                                     | RL 0.00404               |                    | <u>D</u> |                         | Analyzed   | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die   | - Total BTEX Calc Result <0.00404 sel Range Organ               | <b>Qualifier</b><br>U                                     | RL 0.00404               |                    | <u>D</u> |                         | Analyzed   | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte   | - Total BTEX Calc Result <0.00404 sel Range Organ               | Qualifier U ics (DRO) ( Qualifier                         | RL 0.00404               | mg/Kg              |          | Prepared                | Analyzed 02/21/24 19:47                          | ,       |
| Method: TAL SOP Total BTEX Analyte   | - Total BTEX Calc Result <0.00404  sel Range Organ Result <50.3 | Qualifier U ics (DRO) ( Qualifier U                       | RL 0.00404  GC) RL 50.3  | mg/Kg              |          | Prepared                | Analyzed 02/21/24 19:47  Analyzed                | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - Die | - Total BTEX Calc Result <0.00404  sel Range Organ Result <50.3 | Qualifier U ics (DRO) ( Qualifier U                       | RL 0.00404  GC) RL 50.3  | mg/Kg              |          | Prepared                | Analyzed 02/21/24 19:47  Analyzed                | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH                               | - Total BTEX Calc Result <0.00404  sel Range Organ Result <50.3 | Qualifier U ics (DRO) ( Qualifier U inics (DRO) Qualifier | RL 0.00404  GC)  RL 50.3 | mg/Kg  Unit  mg/Kg | <u>D</u> | Prepared Prepared       | Analyzed 02/21/24 19:47  Analyzed 02/20/24 03:22 | Dil Fac |

Client: Vertex

Project/Site: Mis Amigos

SDG: 23E-05219

Job ID: 890-6176-1

#### Client Sample ID: BH24-01

Date Collected: 02/12/24 10:00 Date Received: 02/14/24 08:28

Lab Sample ID: 890-6176-3

Matrix: Solid

| Method: SW846 8015B NM - Dies     | el Range Orga | nics (DRO) | (GC) (Continued) |       |   |                |                |         |
|-----------------------------------|---------------|------------|------------------|-------|---|----------------|----------------|---------|
| Analyte                           | Result        | Qualifier  | RL               | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Oll Range Organics (Over C28-C36) | <50.3         | U          | 50.3             | mg/Kg |   | 02/15/24 17:26 | 02/20/24 03:22 | 1       |
| Surrogate                         | %Recovery     | Qualifier  | Limits           |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 65            | S1-        | 70 - 130         |       |   | 02/15/24 17:26 | 02/20/24 03:22 | 1       |
| o-Terphenyl                       | 60            | S1-        | 70 - 130         |       |   | 02/15/24 17:26 | 02/20/24 03:22 | 1       |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared 5.00 02/17/24 02:15 Chloride 90.4 mg/Kg

Client Sample ID: BH24-02

Date Collected: 02/12/24 10:10 Date Received: 02/14/24 08:28

Total BTEX

Lab Sample ID: 890-6176-4

02/21/24 20:07

**Matrix: Solid** 

<0.00402 U

| Method: SW846 8021B - Volat | ile Organic Comp | ounds (GC | )        |       |   |                |                |         |
|-----------------------------|------------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte                     | Result           | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene                     | <0.00201         | U         | 0.00201  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 20:07 | 1       |
| Toluene                     | <0.00201         | U         | 0.00201  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 20:07 | 1       |
| Ethylbenzene                | <0.00201         | U         | 0.00201  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 20:07 | 1       |
| m-Xylene & p-Xylene         | <0.00402         | U         | 0.00402  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 20:07 | 1       |
| o-Xylene                    | <0.00201         | U         | 0.00201  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 20:07 | 1       |
| Xylenes, Total              | <0.00402         | U         | 0.00402  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 20:07 | 1       |
| Surrogate                   | %Recovery        | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 90               |           | 70 - 130 |       |   | 02/15/24 15:33 | 02/21/24 20:07 | 1       |
| 1 / Diffuorobenzene (Surr)  | 104              |           | 70 130   |       |   | 02/15/24 15:33 | 02/21/24 20:07 | 1       |

| Analyte                                | Result Qualifier | RL       | Unit | D | Prepared       | Analyzed       | Dil Fac |  |
|--|------------------|----------|------|---|----------------|----------------|---------|--|
| Method: TAL SOP Total BTEX - Total BTI | EX Calculation   |          |      |   |                |                |         |  |
| 1,4-Difluorobenzene (Surr)             | 104              | 70 - 130 |      | ( | 02/15/24 15:33 | 02/21/24 20:07 | 1       |  |

0.00402

mg/Kg

| 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 |   |          | 02/20/24 03:45 | 1       |

| Analyte                           | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics           | <50.4     | U         | 50.4     | mg/Kg |   | 02/15/24 17:26 | 02/20/24 03:45 | 1       |
| (GRO)-C6-C10                      |           |           |          |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.4     | U         | 50.4     | mg/Kg |   | 02/15/24 17:26 | 02/20/24 03:45 | 1       |
| C10-C28)                          |           |           |          |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <50.4     | U         | 50.4     | mg/Kg |   | 02/15/24 17:26 | 02/20/24 03:45 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 71        |           | 70 - 130 |       |   | 02/15/24 17:26 | 02/20/24 03:45 | 1       |
| o-Terphenvl                       | 75        |           | 70 - 130 |       |   | 02/15/24 17:26 | 02/20/24 03:45 | 1       |

| Method: EPA 300.0 - Anions, Ion C | hromatograp | hy - Soluble | •    |       |   |          |                |         |
|-----------------------------------|-------------|--------------|------|-------|---|----------|----------------|---------|
| Analyte                           | Result      | Qualifier    | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                          | 157         |              | 4.98 | mg/Kg |   |          | 02/17/24 02:29 | 1       |

Project/Site: Mis Amigos

Job ID: 890-6176-1

SDG: 23E-05219

**Matrix: Solid** 

| 03 | U | -0 | 17 | 0-5 |  |
|----|---|----|----|-----|--|
|    |   |    | _  |     |  |

| .ab | Sample | ID: | 89 | 0-6 | 176-5 |
|-----|--------|-----|----|-----|-------|
|     |        |     |    | _   |       |

Date Collected: 02/12/24 10:20 Date Received: 02/14/24 08:28

Client Sample ID: BH24-02

Client: Vertex

| Analyte   | Result   | Qualifier  | RL                               | Unit                     | D        | Prepared          | Analyzed  | Dil Fac |
|---|--|--|----------------------------------|--------------------------|----------|-------------------|---|---------|
| Benzene   | <0.00202   | U  | 0.00202                          | mg/Kg                    |          | 02/15/24 15:33    | 02/21/24 20:28                                    | 1       |
| Toluene   | <0.00202   | U  | 0.00202                          | mg/Kg                    |          | 02/15/24 15:33    | 02/21/24 20:28                                    | 1       |
| Ethylbenzene  | <0.00202   | U  | 0.00202                          | mg/Kg                    |          | 02/15/24 15:33    | 02/21/24 20:28                                    | 1       |
| m-Xylene & p-Xylene   | <0.00403   | U  | 0.00403                          | mg/Kg                    |          | 02/15/24 15:33    | 02/21/24 20:28                                    | 1       |
| o-Xylene  | <0.00202   | U  | 0.00202                          | mg/Kg                    |          | 02/15/24 15:33    | 02/21/24 20:28                                    | 1       |
| Xylenes, Total  | <0.00403   | U  | 0.00403                          | mg/Kg                    |          | 02/15/24 15:33    | 02/21/24 20:28                                    | 1       |
| Surrogate   | %Recovery  | Qualifier  | Limits                           |                          |          | Prepared          | Analyzed  | Dil Fac |
| 4-Bromofluorobenzene (Surr)   | 97   |  | 70 - 130                         |                          |          | 02/15/24 15:33    | 02/21/24 20:28                                    | 1       |
| 1,4-Difluorobenzene (Surr)  | 106  |  | 70 - 130                         |                          |          | 02/15/24 15:33    | 02/21/24 20:28                                    | 1       |
| Method: TAL SOP Total BTEX -  | Total BTEX Cald  | culation   |                                  |                          |          |                   |   |         |
|   |  | Qualifier  | RL                               | Unit                     | D        | Prepared          | Analyzed  | Dil Fac |
| Analyte Total BTEX  | Result   <0.00403  | <b>Qualifier</b><br>U  | 0.00403                          | Unit<br>mg/Kg            | <u>D</u> | Prepared          | Analyzed 02/21/24 20:28                           | Dil Fac |
| Analyte Total BTEX  | Result <0.00403  | Qualifier U  | 0.00403 GC)                      | mg/Kg                    | <u>D</u> | Prepared          |   | 1       |
| Analyte Total BTEX  Method: SW846 8015 NM - Diese Analyte   | Result <0.00403  | <b>Qualifier</b><br>U  | 0.00403                          |                          | <u>D</u> | Prepared Prepared |   | Dil Fac |
| Analyte   | Result <0.00403  | Qualifier U ics (DRO) (                                      | 0.00403 GC)                      | mg/Kg                    | =        |                   | 02/21/24 20:28                                    | 1       |
| Analyte Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH   | Result <0.00403  el Range Organ Result <50.5   | Qualifier  U  ics (DRO) ( Qualifier  U                       | 0.00403  GC)  RL  50.5           | mg/Kg                    | =        |                   | 02/21/24 20:28  Analyzed                          | 1       |
| Analyte Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die                                 | Result <0.00403  el Range Organ Result <50.5  sel Range Orga                         | Qualifier  U  ics (DRO) ( Qualifier  U                       | 0.00403  GC)  RL  50.5           | mg/Kg                    | =        |                   | 02/21/24 20:28  Analyzed                          | 1       |
| Analyte Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics | Result <0.00403  el Range Organ Result <50.5  sel Range Orga                         | Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier      | 0.00403  GC)  RL  50.5           | mg/Kg  Unit  mg/Kg       |          | Prepared          | 02/21/24 20:28  Analyzed 02/20/24 04:07           | Dil Fac |
| Analyte Total BTEX  Method: SW846 8015 NM - Diese Analyte   | el Range Organ Result <50.5 sel Range Orga Result Result Result Result Result Result | Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier U | 0.00403  GC)  RL  50.5  (GC)  RL | mg/Kg  Unit  mg/Kg  Unit |          | Prepared Prepared | 02/21/24 20:28  Analyzed 02/20/24 04:07  Analyzed | Dil Fac |

| on range organies (over 625 cos) | -00.0     | Ü         | 00.0     | g/ivg | 02/10/21 17:20 | 02/20/21 01:07 |         |
|----------------------------------|-----------|-----------|----------|-------|----------------|----------------|---------|
| Surrogate                        | %Recovery | Qualifier | Limits   |       | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                   | 74        |           | 70 - 130 |       | 02/15/24 17:26 | 02/20/24 04:07 | 1       |
| o-Terphenyl                      | 70        |           | 70 - 130 |       | 02/15/24 17:26 | 02/20/24 04:07 | 1       |

| Method: EPA 300.0 - Anions, Ion C | Method: EPA 300.0 - Anions, Ion Chromatography - Soluble |           |      |       |   |          |                |         |  |  |
|-----------------------------------|--|-----------|------|-------|---|----------|----------------|---------|--|--|
| Analyte                           | Result (   | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |  |
| Chloride                          | 75.9   |           | 5.03 | mg/Kg |   |          | 02/17/24 02:33 | 1       |  |  |

Client Sample ID: BH24-02 Date Collected: 02/12/24 10:30

Lab Sample ID: 890-6176-6 **Matrix: Solid** 

Date Received: 02/14/24 08:28

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 20:49 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 20:49 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 20:49 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 20:49 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 20:49 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 20:49 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 |       |   | 02/15/24 15:33 | 02/21/24 20:49 | 1       |
| 1,4-Difluorobenzene (Surr)  | 106       |           | 70 - 130 |       |   | 02/15/24 15:33 | 02/21/24 20:49 | 1       |

Client: Vertex

Job ID: 890-6176-1

SDG: 23E-05219

Lab Sample ID: 890-6176-6

Matrix: Solid

Client Sample ID: BH24-02

Date Collected: 02/12/24 10:30 Date Received: 02/14/24 08:28

Project/Site: Mis Amigos

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 | mg/Kg |   |          | 02/21/24 20:49 | 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 |   |          | 02/20/24 04:29 | 1       |  |

| Analyte                           | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics           | <49.7     | U         | 49.7     | mg/Kg |   | 02/15/24 17:26 | 02/20/24 04:29 | 1       |
| (GRO)-C6-C10                      |           |           |          |       |   |                |                |         |
| Diesel Range Organics (Over       | <49.7     | U         | 49.7     | mg/Kg |   | 02/15/24 17:26 | 02/20/24 04:29 | 1       |
| C10-C28)                          |           |           |          |       |   |                |                |         |
| OII Range Organics (Over C28-C36) | <49.7     | U         | 49.7     | mg/Kg |   | 02/15/24 17:26 | 02/20/24 04:29 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 78        |           | 70 - 130 |       |   | 02/15/24 17:26 | 02/20/24 04:29 | 1       |
| o-Terphenyl                       | 80        |           | 70 - 130 |       |   | 02/15/24 17:26 | 02/20/24 04:29 | 1       |

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble |          |                  |      |       |   |          |                |         |
|--|----------|------------------|------|-------|---|----------|----------------|---------|
|  | Analyte  | Result Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|  | Chloride | 235              | 5.05 | mg/Kg |   |          | 02/17/24 02:38 | 1       |

Client Sample ID: BH24-03 Lab Sample ID: 890-6176-7 Date Collected: 02/12/24 10:40 **Matrix: Solid** 

Date Received: 02/14/24 08:28

| Analyte  | Result   | Qualifier  | RL                                 | Unit                     | D        | Prepared                | Analyzed   | Dil Fa  |
|--|--|--|------------------------------------|--------------------------|----------|-------------------------|--|---------|
| Benzene  | <0.00200   | U  | 0.00200                            | mg/Kg                    |          | 02/15/24 15:33          | 02/21/24 21:10   |         |
| Toluene  | <0.00200   | U  | 0.00200                            | mg/Kg                    |          | 02/15/24 15:33          | 02/21/24 21:10   |         |
| Ethylbenzene   | <0.00200   | U  | 0.00200                            | mg/Kg                    |          | 02/15/24 15:33          | 02/21/24 21:10   |         |
| m-Xylene & p-Xylene  | <0.00399   | U  | 0.00399                            | mg/Kg                    |          | 02/15/24 15:33          | 02/21/24 21:10   |         |
| o-Xylene   | <0.00200   | U  | 0.00200                            | mg/Kg                    |          | 02/15/24 15:33          | 02/21/24 21:10   |         |
| Xylenes, Total   | <0.00399   | U  | 0.00399                            | mg/Kg                    |          | 02/15/24 15:33          | 02/21/24 21:10   |         |
| Surrogate  | %Recovery  | Qualifier  | Limits                             |                          |          | Prepared                | Analyzed   | Dil Fa  |
| 4-Bromofluorobenzene (Surr)  | 103  |  | 70 - 130                           |                          |          | 02/15/24 15:33          | 02/21/24 21:10   |         |
|  | 400  |  | 70 100                             |                          |          | 00//5/0/ /5 00          | 00/04/04 04 40   |         |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte   |  |  | 70 <sub>-</sub> 130                | Unit                     | D        | 02/15/24 15:33 Prepared | 02/21/24 21:10 Analyzed                                    |         |
|  | - Total BTEX Cald  |  |                                    |                          |          | 02/15/24 15:33          | 02/21/24 21:10   |         |
|  | - Total BTEX Cald  | Qualifier  | RL 0.00399                         | Unit<br>mg/Kg            | <u>D</u> | Prepared                | Analyzed 02/21/24 21:10                                    | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  | - Total BTEX Cald<br>Result<br><0.00399  | <b>Qualifier</b><br>U  | RL<br>0.00399                      |                          | <u>D</u> |                         | Analyzed   | Dil Fa  |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die   | - Total BTEX Cald<br>Result<br><0.00399<br>esel Range Organ                              | <b>Qualifier</b><br>U  | RL<br>0.00399                      |                          | <u>D</u> |                         | Analyzed   | Dil Fa  |
| Method: TAL SOP Total BTEX Analyte   | - Total BTEX Cald<br>Result<br><0.00399<br>esel Range Organ                              | Qualifier U ics (DRO) (Qualifier                             | RL<br>0.00399                      | mg/Kg                    |          | Prepared                | Analyzed 02/21/24 21:10                                    | Dil Fa  |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH   | - Total BTEX Cald Result <0.00399 esel Range Organ Result <49.9                          | Qualifier U ics (DRO) ( Qualifier U                          | RL 0.00399  GC)  RL 49.9           | mg/Kg                    |          | Prepared                | Analyzed 02/21/24 21:10 Analyzed                           | Dil Fa  |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte   | - Total BTEX Calc Result <0.00399 esel Range Organ Result <49.9 Diesel Range Orga        | Qualifier U ics (DRO) ( Qualifier U                          | RL 0.00399  GC)  RL 49.9           | mg/Kg                    |          | Prepared                | Analyzed 02/21/24 21:10 Analyzed                           | Dil Fa  |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte Gasoline Range Organics | - Total BTEX Calc Result <0.00399 esel Range Organ Result <49.9 Diesel Range Orga        | Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier   | RL 0.00399  GC)  RL 49.9           | mg/Kg  Unit  mg/Kg       | <u>D</u> | Prepared Prepared       | Analyzed 02/21/24 21:10  Analyzed 02/20/24 04:51           | Dil Fa  |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D                                 | - Total BTEX Calc Result <0.00399 esel Range Organ Result <49.9 Diesel Range Orga Result | Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier U | RL 0.00399  GC)  RL 49.9  (GC)  RL | mg/Kg  Unit  mg/Kg  Unit | <u>D</u> | Prepared Prepared       | Analyzed 02/21/24 21:10  Analyzed 02/20/24 04:51  Analyzed | Dil Fa  |

Client: Vertex

Job ID: 890-6176-1 SDG: 23E-05219

Project/Site: Mis Amigos

Client Sample ID: BH24-03 Lab Sample ID: 890-6176-7 Date Collected: 02/12/24 10:40

Matrix: Solid

Date Received: 02/14/24 08:28 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Analyte                           | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oll Range Organics (Over C28-C36) | <49.9     | U         | 49.9     | mg/Kg |   | 02/15/24 17:26 | 02/20/24 04:51 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 70        |           | 70 - 130 |       |   | 02/15/24 17:26 | 02/20/24 04:51 | 1       |
| o-Terphenyl                       | 67        | S1-       | 70 - 130 |       |   | 02/15/24 17:26 | 02/20/24 04:51 | 1       |

| Method: EPA 300.0 - Anions, Ion C | hromatography - Soluble |      |       |   |          |                |         |
|-----------------------------------|-------------------------|------|-------|---|----------|----------------|---------|
| Analyte                           | Result Qualifier        | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                          | 107                     | 5.02 | mg/Kg |   |          | 02/17/24 02:43 | 1       |

Client Sample ID: BH24-03 Lab Sample ID: 890-6176-8

Date Collected: 02/12/24 10:50 **Matrix: Solid** 

Date Received: 02/14/24 08:28

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 21:31 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 21:31 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 21:31 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 21:31 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 21:31 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 21:31 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95        |           | 70 - 130 |       |   | 02/15/24 15:33 | 02/21/24 21:31 | 1       |

| Juniogato                        | fortecovery quantites | Lillino  | rreparea       | rinaryzou      | <i>Dii i ao</i> |
|----------------------------------|-----------------------|----------|----------------|----------------|-----------------|
| 4-Bromofluorobenzene (Surr)      | 95                    | 70 - 130 | 02/15/24 15:33 | 02/21/24 21:31 | 1               |
| 1,4-Difluorobenzene (Surr)       | 104                   | 70 - 130 | 02/15/24 15:33 | 02/21/24 21:31 | 1               |
| Method: TAL SOP Total BTEX - Tot | al BTEX Calculation   |          |                |                |                 |

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 02/21/24 21:31 | 1       |

| Method: SW846 8015 NM - Diesel Range | Organ  | ics (DRO) (GO | G)   |       |   |          |                |         |
|--------------------------------------|--------|---------------|------|-------|---|----------|----------------|---------|
| Analyte                              | Result | Qualifier     | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Total TPH                            | <50.0  | U             | 50.0 | mg/Kg |   |          | 02/20/24 05:14 | 1       |

| Analyte                         | Result Qualifier        | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------------------|------|-------|---|----------|----------------|---------|
| Method: SW846 8015B NM - Diesel | Range Organics (DRO) (G | C)   |       |   |          |                |         |
| Iotal IPH                       | <50.0 0                 | 50.0 | mg/Kg |   |          | 02/20/24 05:14 | 1       |

| Gasoline Range Organics                  | <50.0 U | 50.0 | mg/Kg | 02/15/24 17:26 | 02/20/24 05:14 | 1 |
|--|---------|------|-------|----------------|----------------|---|
| (GRO)-C6-C10 Diesel Range Organics (Over | <50.0 U | 50.0 | mg/Kg | 02/15/24 17:26 | 02/20/24 05:14 | 1 |
| C10-C28)                                 |         |      | 5 5   |                |                |   |
| Oll Range Organics (Over C28-C36)        | <50.0 U | 50.0 | mg/Kg | 02/15/24 17:26 | 02/20/24 05:14 | 1 |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 70        |           | 70 - 130 | 02/15/24 17:26 | 02/20/24 05:14 | 1       |
| o-Terphenyl    | 67        | S1-       | 70 - 130 | 02/15/24 17:26 | 02/20/24 05:14 | 1       |

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble |                  |      |       |   |          |                |         |  |
|--|------------------|------|-------|---|----------|----------------|---------|--|
| Analyte  | Result Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride   | 90.8             | 4.97 | mg/Kg |   |          | 02/17/24 02:47 | 1       |  |

Client: Vertex Job ID: 890-6176-1 Project/Site: Mis Amigos SDG: 23E-05219

Client Sample ID: BH24-03

Lab Sample ID: 890-6176-9 Date Collected: 02/12/24 11:00

Matrix: Solid Date Received: 02/14/24 08:28

| Analyte  | Result   | Qualifier   | RL   | Unit               | D        | Prepared   | Analyzed   | Dil Fac                      |
|--|--|---|--|--------------------|----------|--|--|------------------------------|
| Benzene  | <0.00198   | U   | 0.00198  | mg/Kg              |          | 02/15/24 15:33   | 02/21/24 21:52   | 1                            |
| Toluene  | <0.00198   | U   | 0.00198  | mg/Kg              |          | 02/15/24 15:33   | 02/21/24 21:52   | 1                            |
| Ethylbenzene   | <0.00198   | U   | 0.00198  | mg/Kg              |          | 02/15/24 15:33   | 02/21/24 21:52   | 1                            |
| m-Xylene & p-Xylene  | <0.00396   | U   | 0.00396  | mg/Kg              |          | 02/15/24 15:33   | 02/21/24 21:52   | 1                            |
| o-Xylene   | <0.00198   | U   | 0.00198  | mg/Kg              |          | 02/15/24 15:33   | 02/21/24 21:52   | 1                            |
| Xylenes, Total   | <0.00396   | U   | 0.00396  | mg/Kg              |          | 02/15/24 15:33   | 02/21/24 21:52   | 1                            |
| Surrogate  | %Recovery  | Qualifier   | Limits   |                    |          | Prepared   | Analyzed   | Dil Fac                      |
| 4-Bromofluorobenzene (Surr)  | 94   |   | 70 - 130   |                    |          | 02/15/24 15:33   | 02/21/24 21:52   | 1                            |
| 1,4-Difluorobenzene (Surr)   | 104  |   | 70 - 130   |                    |          | 02/15/24 15:33   | 02/21/24 21:52   | 1                            |
| Method: TAL SOP Total BTEX - 1   | Total BTEX Cald  | ulation   |  |                    |          |  |  |                              |
| Analyte  | Result   | Qualifier   | RL   | Unit               | D        | Prepared   | Analyzed   | Dil Fac                      |
| Total BTEX   | <0.00396   | U   | 0.00396  | mg/Kg              |          |  | 02/21/24 21:52   | 1                            |
|  |  |   | •  |                    | _        |  |  |                              |
|  |  | ics (DRO) ((                                      | GC)  | Unit               | D        | Prepared   | Analyzed   | Dil Fac                      |
| Method: SW846 8015 NM - Diese<br>Analyte<br>Total TPH  |  | Qualifier   | •  | Unit<br>mg/Kg      | <u>D</u> | Prepared   | Analyzed 02/18/24 17:20  | Dil Fac                      |
| Analyte Total TPH  | Result   <49.6   | <b>Qualifier</b> U                                | <b>RL</b> 49.6   |                    | <u>D</u> | Prepared   |  |                              |
| Analyte  | Result <49.6   | <b>Qualifier</b> U                                | <b>RL</b> 49.6   |                    | <u>D</u> | Prepared Prepared  |  | 1                            |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte   | Result <49.6   | Qualifier Unics (DRO) Qualifier                   | RL 49.6  | mg/Kg              |          | <u> </u>   | 02/18/24 17:20   | 1                            |
| Analyte Total TPH  Method: SW846 8015B NM - Dies   | Result <49.6  Result Range Orga                                | Qualifier Unics (DRO) Qualifier                   | RL 49.6 (GC)   | mg/Kg              |          | Prepared   | 02/18/24 17:20  Analyzed   | 1 Dil Fac                    |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics   | Result <49.6  Result Range Orga                                | Qualifier U  nics (DRO) Qualifier U               | RL 49.6 (GC)   | mg/Kg              |          | Prepared   | 02/18/24 17:20  Analyzed   | 1 Dil Fac                    |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)   | Result <49.6  sel Range Orga Result <49.6  <49.6 <49.6         | Qualifier U  nics (DRO) Qualifier U               | RL 49.6  (GC)  RL 49.6  49.6   | mg/Kg  Unit  mg/Kg |          | Prepared 02/15/24 17:22 02/15/24 17:22   | 02/18/24 17:20  Analyzed 02/18/24 17:20 02/18/24 17:20   | 1 Dil Fac                    |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result <49.6  sel Range Orga Result <49.6                      | Qualifier U  nics (DRO) Qualifier U               | RL 49.6  (GC)  RL 49.6   | mg/Kg  Unit  mg/Kg |          | Prepared 02/15/24 17:22  | 02/18/24 17:20  Analyzed 02/18/24 17:20  | Dil Fac                      |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                            | Result <49.6  sel Range Orga Result <49.6  <49.6 <49.6         | Qualifier U  nics (DRO) Qualifier U  U            | RL 49.6  (GC)  RL 49.6  49.6   | mg/Kg  Unit  mg/Kg |          | Prepared 02/15/24 17:22 02/15/24 17:22   | 02/18/24 17:20  Analyzed 02/18/24 17:20 02/18/24 17:20 02/18/24 17:20 Analyzed                   | 1 Dil Fac                    |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)                                       | Result <49.6  sel Range Orga Result <49.6  <49.6  <49.6  <49.6 | Qualifier U  nics (DRO) Qualifier U  U            | RL 49.6  (GC)  RL 49.6  49.6  49.6  49.6   | mg/Kg  Unit  mg/Kg |          | Prepared 02/15/24 17:22 02/15/24 17:22 02/15/24 17:22                          | 02/18/24 17:20  Analyzed 02/18/24 17:20 02/18/24 17:20 02/18/24 17:20                            | Dil Fac                      |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                            | Result   <49.6   | Qualifier U  nics (DRO) Qualifier U  U            | RL 49.6  (GC)  RL 49.6  49.6  49.6  Limits   | mg/Kg  Unit  mg/Kg |          | Prepared 02/15/24 17:22 02/15/24 17:22 02/15/24 17:22 Prepared                 | 02/18/24 17:20  Analyzed 02/18/24 17:20 02/18/24 17:20 02/18/24 17:20 Analyzed                   | Dil Fac                      |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane             | Result   <49.6   | Qualifier U  nics (DRO) Qualifier U  U  Qualifier | RL<br>49.6<br>(GC)<br>RL<br>49.6<br>49.6<br>49.6<br>Limits<br>70 - 130<br>70 - 130 | mg/Kg  Unit  mg/Kg |          | Prepared 02/15/24 17:22 02/15/24 17:22 02/15/24 17:22  Prepared 02/15/24 17:22 | 02/18/24 17:20  Analyzed 02/18/24 17:20  02/18/24 17:20  02/18/24 17:20  Analyzed 02/18/24 17:20 | 1 Dil Fac 1                  |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl | Result   <49.6   | Qualifier U  nics (DRO) Qualifier U  U  Qualifier | RL<br>49.6<br>(GC)<br>RL<br>49.6<br>49.6<br>49.6<br>Limits<br>70 - 130<br>70 - 130 | mg/Kg  Unit  mg/Kg |          | Prepared 02/15/24 17:22 02/15/24 17:22 02/15/24 17:22  Prepared 02/15/24 17:22 | 02/18/24 17:20  Analyzed 02/18/24 17:20  02/18/24 17:20  02/18/24 17:20  Analyzed 02/18/24 17:20 | Dil Fac  1  1  1  Dil Fac  1 |

Client Sample ID: BH24-04 Lab Sample ID: 890-6176-10 **Matrix: Solid** 

Date Collected: 02/12/24 11:10 Date Received: 02/14/24 08:28

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 22:13 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 22:13 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 22:13 | 1       |
| m-Xylene & p-Xylene         | <0.00403  | U         | 0.00403  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 22:13 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 22:13 | 1       |
| Xylenes, Total              | <0.00403  | U         | 0.00403  | mg/Kg |   | 02/15/24 15:33 | 02/21/24 22:13 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 |       |   | 02/15/24 15:33 | 02/21/24 22:13 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107       |           | 70 - 130 |       |   | 02/15/24 15:33 | 02/21/24 22:13 | 1       |

## **Client Sample Results**

Client: Vertex Job ID: 890-6176-1 Project/Site: Mis Amigos SDG: 23E-05219

Client Sample ID: BH24-04

Date Collected: 02/12/24 11:10

Date Received: 02/14/24 08:28

Lab Sample ID: 890-6176-10

**Matrix: Solid** 

| 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 |   |          | 02/21/24 22:13 | 1       |  |  |
| _   |          |           |         |       |   |          |                |         |  |  |

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

Result Qualifier Analyte Unit Prepared Analyzed RL D Dil Fac Total TPH <50.1 U 50.1 mg/Kg 02/18/24 17:43

| Method: SW846 8015B NM - Die | esel Range Organics (DRO) (GC) |
|------------------------------|--------------------------------|
|                              |                                |

RL Unit Dil Fac Result Qualifier D Prepared Analyte Analyzed <50.1 U 50.1 02/15/24 17:23 02/18/24 17:43 Gasoline Range Organics mg/Kg (GRO)-C6-C10 50.1 02/18/24 17:43 Diesel Range Organics (Over <50.1 U mg/Kg 02/15/24 17:23 C10-C28) OII Range Organics (Over C28-C36) <50.1 U 50.1 mg/Kg 02/15/24 17:23 02/18/24 17:43

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 101       |           | 70 - 130 | 02/15/24 17:23 | 02/18/24 17:43 | 1       |
| o-Terphenyl    | 80        |           | 70 - 130 | 02/15/24 17:23 | 02/18/24 17:43 | 1       |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 71.2 4.96 mg/Kg 02/17/24 03:06

Client Sample ID: BH24-04 2

Date Collected: 02/12/24 11:20

Date Received: 02/14/24 08:28

Lab Sample ID: 890-6176-11

**Matrix: Solid** 

| Method: SW846 8021B - Volatile Organic Compounds (     | CC  |   |
|--|-----|---|
| interiod. 344040 002 1D - Volatile Organic Compounds ( | oo, | , |

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 02/15/24 15:33 | 02/21/24 23:40 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 02/15/24 15:33 | 02/21/24 23:40 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 02/15/24 15:33 | 02/21/24 23:40 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 02/15/24 15:33 | 02/21/24 23:40 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 02/15/24 15:33 | 02/21/24 23:40 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 02/15/24 15:33 | 02/21/24 23:40 | 1       |
|                     |          |           |         |       |   |                |                |         |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 88        |           | 70 - 130 | 02/15/24 15:33 | 02/21/24 23:40 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 | 02/15/24 15:33 | 02/21/24 23:40 | 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 |   |          | 02/21/24 23:40 | 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 |   |          | 02/18/24 18:06 | 1       |

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

| momour office of 102 mm. Disc | or runge orga |           | ,    |       |   |                |                |         |
|-------------------------------|---------------|-----------|------|-------|---|----------------|----------------|---------|
| Analyte                       | Result        | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics       | <50.4         | U         | 50.4 | mg/Kg |   | 02/15/24 17:23 | 02/18/24 18:06 | 1       |
| (GRO)-C6-C10                  |               |           |      |       |   |                |                |         |
| Diesel Range Organics (Over   | <50.4         | U         | 50.4 | mg/Kg |   | 02/15/24 17:23 | 02/18/24 18:06 | 1       |
| C10-C28)                      |               |           |      |       |   |                |                |         |

**Eurofins Carlsbad** 

Released to Imaging: 4/16/2024 2:38:45 PM

Job ID: 890-6176-1

Client: Vertex Project/Site: Mis Amigos SDG: 23E-05219

Client Sample ID: BH24-04 2

Date Collected: 02/12/24 11:20 Date Received: 02/14/24 08:28 Lab Sample ID: 890-6176-11

Matrix: Solid

| Analyte                           | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oll Range Organics (Over C28-C36) | <50.4     | U         | 50.4     | mg/Kg |   | 02/15/24 17:23 | 02/18/24 18:06 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 106       |           | 70 - 130 |       |   | 02/15/24 17:23 | 02/18/24 18:06 | 1       |
| o-Terphenyl                       | 87        |           | 70 - 130 |       |   | 02/15/24 17:23 | 02/18/24 18:06 | 1       |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 80.7 4.95 02/17/24 03:11 mg/Kg

Client Sample ID: BH24-04

Lab Sample ID: 890-6176-12

**Matrix: Solid** 

Date Collected: 02/12/24 11:30 Date Received: 02/14/24 08:28

|   | D. "   | O II:6:                 | DI.  | 1114       | _        | D  | A II   | D:: -  |
|---|--|-------------------------|--|------------|----------|--|--|--------|
| Analyte   |  | Qualifier               | RL   | Unit       | D        | Prepared   | Analyzed   | Dil Fa |
| Benzene   | <0.00199   |                         | 0.00199  | mg/Kg      |          | 02/15/24 15:33   | 02/22/24 00:00   |        |
| Toluene   | <0.00199   | U                       | 0.00199  | mg/Kg      |          | 02/15/24 15:33   | 02/22/24 00:00   |        |
| Ethylbenzene  | <0.00199   | U                       | 0.00199  | mg/Kg      |          | 02/15/24 15:33   | 02/22/24 00:00   |        |
| m-Xylene & p-Xylene   | <0.00398   | U                       | 0.00398  | mg/Kg      |          | 02/15/24 15:33   | 02/22/24 00:00   |        |
| o-Xylene  | <0.00199   | U                       | 0.00199  | mg/Kg      |          | 02/15/24 15:33   | 02/22/24 00:00   |        |
| Xylenes, Total  | <0.00398   | U                       | 0.00398  | mg/Kg      |          | 02/15/24 15:33   | 02/22/24 00:00   |        |
| Surrogate   | %Recovery  | Qualifier               | Limits   |            |          | Prepared   | Analyzed   | Dil Fa |
| 4-Bromofluorobenzene (Surr)   | 102  |                         | 70 - 130   |            |          | 02/15/24 15:33   | 02/22/24 00:00   |        |
| 1,4-Difluorobenzene (Surr)  | 110  |                         | 70 - 130   |            |          | 02/15/24 15:33   | 02/22/24 00:00   |        |
| Method: TAL SOP Total BTEX - 1  | Total BTEX Cald  | culation                |  |            |          |  |  |        |
| Analyte   | Result   | Qualifier               | RL   | Unit       | D        | Prepared   | Analyzed   | Dil Fa |
| Total BTEX  | <0.00398   | U                       | 0.00398  | mg/Kg      |          |  | 02/22/24 00:00   |        |
| Method: SW846 8015 NM - Diese   | el Range Organ   | ics (DRO) ((            | 3C)  |            |          |  |  |        |
| Analyte   |  | Qualifier               | RL   | Unit       | D        | Prepared   | Analyzed   | Dil Fa |
| Total TPH   | <50.3  | U                       | 50.3   | mg/Kg      |          |  | 02/18/24 18:29   |        |
|   |  |                         |  |            |          |  | 02/10/21 10:20   |        |
| Method: SW846 8015B NM - Dies   | sel Range Orga   | nics (DRO)              | (GC)   |            |          |  | 02/10/21 10:20   |        |
| Method: SW846 8015B NM - Dies<br>Analyte  | • •  | nics (DRO)<br>Qualifier | (GC)   | Unit       | D        | Prepared   | Analyzed   | Dil Fa |
|   | • •  | Qualifier               | • •  | Unit mg/Kg | <u>D</u> | Prepared 02/15/24 17:23  |  | Dil Fa |
| Analyte   | Result   | Qualifier               | RL   |            | <u>D</u> |  | Analyzed   | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result   | Qualifier<br>U          | RL   |            | <u>D</u> |  | Analyzed   | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)   | Result <50.3   | Qualifier<br>U          | FL 50.3  | mg/Kg      | <u>D</u> | 02/15/24 17:23   | Analyzed 02/18/24 18:29 02/18/24 18:29   | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  |  | Qualifier<br>U          | <b>RL</b> 50.3   | mg/Kg      | <u>D</u> | 02/15/24 17:23   | <b>Analyzed</b> 02/18/24 18:29   | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                            | Result   <50.3   <50.3   <50.3   <50.3   <60.3   %Recovery | Qualifier U U U         | 50.3<br>50.3<br><i>Limits</i>                                | mg/Kg      | <u> </u> | 02/15/24 17:23<br>02/15/24 17:23<br>02/15/24 17:23<br>Prepared                   | Analyzed 02/18/24 18:29 02/18/24 18:29 02/18/24 18:29 Analyzed                 |        |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)                                       | Result  <50.3 <50.3 <50.3                                  | Qualifier U U U         | FL 50.3 50.3   | mg/Kg      | <u>D</u> | 02/15/24 17:23<br>02/15/24 17:23<br>02/15/24 17:23                               | Analyzed 02/18/24 18:29 02/18/24 18:29 02/18/24 18:29                          |        |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                            | Result   <50.3   <50.3   <50.3   <50.3   <60.3   %Recovery | Qualifier U U U         | 50.3<br>50.3<br><i>Limits</i>                                | mg/Kg      | <u>D</u> | 02/15/24 17:23<br>02/15/24 17:23<br>02/15/24 17:23<br>Prepared                   | Analyzed 02/18/24 18:29 02/18/24 18:29 02/18/24 18:29 Analyzed                 |        |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane             | Result   | Qualifier U U Qualifier | RL<br>50.3<br>50.3<br>50.3<br>Limits<br>70 - 130<br>70 - 130 | mg/Kg      | <u>D</u> | 02/15/24 17:23<br>02/15/24 17:23<br>02/15/24 17:23<br>Prepared<br>02/15/24 17:23 | Analyzed 02/18/24 18:29 02/18/24 18:29 02/18/24 18:29  Analyzed 02/18/24 18:29 |        |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl | Result   | Qualifier U U Qualifier | RL<br>50.3<br>50.3<br>50.3<br>Limits<br>70 - 130<br>70 - 130 | mg/Kg      | <u>D</u> | 02/15/24 17:23<br>02/15/24 17:23<br>02/15/24 17:23<br>Prepared<br>02/15/24 17:23 | Analyzed 02/18/24 18:29 02/18/24 18:29 02/18/24 18:29  Analyzed 02/18/24 18:29 | Dil Fa |

## **Surrogate Summary**

Client: Vertex Job ID: 890-6176-1
Project/Site: Mis Amigos SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

|                    |                        |          |          | Percent Surrogate Recovery (Accep |
|--------------------|------------------------|----------|----------|-----------------------------------|
|                    |                        | BFB1     | DFBZ1    |                                   |
| Lab Sample ID      | Client Sample ID       | (70-130) | (70-130) |                                   |
| 390-6176-1         | BH24-01 0              | 91       | 107      |                                   |
| 390-6176-1 MS      | BH24-01 0              | 104      | 106      |                                   |
| 390-6176-1 MSD     | BH24-01 0              | 97       | 106      |                                   |
| 390-6176-2         | BH24-01 2              | 85       | 107      |                                   |
| 390-6176-3         | BH24-01 4              | 95       | 109      |                                   |
| 390-6176-4         | BH24-02 0              | 90       | 104      |                                   |
| 390-6176-5         | BH24-02 2              | 97       | 106      |                                   |
| 390-6176-6         | BH24-02 4              | 98       | 106      |                                   |
| 390-6176-7         | BH24-03 0              | 103      | 106      |                                   |
| 390-6176-8         | BH24-03 2              | 95       | 104      |                                   |
| 390-6176-9         | BH24-03 4              | 94       | 104      |                                   |
| 390-6176-10        | BH24-04 0              | 104      | 107      |                                   |
| 390-6176-11        | BH24-04 2              | 88       | 101      |                                   |
| 390-6176-12        | BH24-04 4              | 102      | 110      |                                   |
| LCS 880-73284/1-A  | Lab Control Sample     | 96       | 108      |                                   |
| _CSD 880-73284/2-A | Lab Control Sample Dup | 93       | 104      |                                   |
| MB 880-73284/5-A   | Method Blank           | 74       | 101      |                                   |

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 L |
|--------------------|------------------------|----------|----------|--|
|                    |                        | 1001     | OTPH1    |  |
| Lab Sample ID      | Client Sample ID       | (70-130) | (70-130) |  |
| 890-6117-A-1-I MS  | Matrix Spike           | 100      | 73       |  |
| 890-6117-A-1-J MSD | Matrix Spike Duplicate | 126      | 93       |  |
| 390-6176-1         | BH24-01 0              | 81       | 85       |  |
| 390-6176-2         | BH24-01 2              | 72       | 71       |  |
| 390-6176-3         | BH24-01 4              | 65 S1-   | 60 S1-   |  |
| 390-6176-4         | BH24-02 0              | 71       | 75       |  |
| 390-6176-5         | BH24-02 2              | 74       | 70       |  |
| 890-6176-6         | BH24-02 4              | 78       | 80       |  |
| 390-6176-7         | BH24-03 0              | 70       | 67 S1-   |  |
| 390-6176-8         | BH24-03 2              | 70       | 67 S1-   |  |
| 890-6176-9         | BH24-03 4              | 115      | 94       |  |
| 390-6176-10        | BH24-04 0              | 101      | 80       |  |
| 390-6176-11        | BH24-04 2              | 106      | 87       |  |
| 390-6176-12        | BH24-04 4              | 98       | 78       |  |
| 890-6178-A-1-G MS  | Matrix Spike           | 73       | 68 S1-   |  |
| 890-6178-A-1-H MSD | Matrix Spike Duplicate | 68 S1-   | 64 S1-   |  |
| LCS 880-73298/2-A  | Lab Control Sample     | 94       | 97       |  |
| LCS 880-73300/2-A  | Lab Control Sample     | 88       | 89       |  |
| CSD 880-73298/3-A  | Lab Control Sample Dup | 97       | 96       |  |
| _CSD 880-73300/3-A | Lab Control Sample Dup | 90       | 93       |  |
| MB 880-73298/1-A   | Method Blank           | 207 S1+  | 179 S1+  |  |
| MB 880-73300/1-A   | Method Blank           | 136 S1+  | 151 S1+  |  |

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## **Surrogate Summary**

Client: Vertex

Project/Site: Mis Amigos

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 890-6176-1 SDG: 23E-05219

Client: Vertex Job ID: 890-6176-1 Project/Site: Mis Amigos SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73284/5-A

**Matrix: Solid** Analysis Batch: 73799

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73284

|                     | MB       | MB        |         |       |   |                |                |         |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 02/15/24 15:33 | 02/21/24 18:43 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 02/15/24 15:33 | 02/21/24 18:43 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 02/15/24 15:33 | 02/21/24 18:43 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 02/15/24 15:33 | 02/21/24 18:43 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 02/15/24 15:33 | 02/21/24 18:43 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 | mg/Kg |   | 02/15/24 15:33 | 02/21/24 18:43 | 1       |
|                     |          |           |         |       |   |                |                |         |

MB MB

| Surrogate                   | %Recovery | Qualifier | Limits   | P    | repared    | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|------|------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 74        |           | 70 - 130 | 02/1 | 5/24 15:33 | 02/21/24 18:43 | 1       |
| 1.4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 | 02/1 | 5/24 15:33 | 02/21/24 18:43 | 1       |

Lab Sample ID: LCS 880-73284/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** 

**Analysis Batch: 73799** 

Prep Type: Total/NA

Prep Batch: 73284

|                     | Spike | LCS     | LCS       |       |   |      | %Rec     |  |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte             | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   |  |
| Benzene             | 0.100 | 0.1305  |           | mg/Kg |   | 130  | 70 - 130 |  |
| Toluene             | 0.100 | 0.1001  |           | mg/Kg |   | 100  | 70 - 130 |  |
| Ethylbenzene        | 0.100 | 0.09525 |           | mg/Kg |   | 95   | 70 - 130 |  |
| m-Xylene & p-Xylene | 0.200 | 0.1853  |           | mg/Kg |   | 93   | 70 - 130 |  |
| o-Xylene            | 0.100 | 0.09366 |           | mg/Kg |   | 94   | 70 - 130 |  |
|                     |       |         |           |       |   |      |          |  |

LCS LCS

| Surrogate                   | %Recovery Qualifier | Limits   |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 96                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 108                 | 70 - 130 |

Lab Sample ID: LCSD 880-73284/2-A

**Matrix: Solid** 

**Analysis Batch: 73799** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 73284

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1169 mg/Kg 117 70 - 130 11 35 Toluene 0.100 0.09440 mg/Kg 94 70 - 130 6 35 Ethylbenzene 0.100 0.09104 mg/Kg 91 70 - 130 5 35 m-Xylene & p-Xylene 0.200 0.1784 mg/Kg 89 70 - 130 35 0.100 0.08973 o-Xylene mg/Kg 90 70 - 130 35

LCSD LCSD

| Surrogate                   | %Recovery Qualifier | Limits   |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 93                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104                 | 70 - 130 |

Lab Sample ID: 890-6176-1 MS

**Matrix: Solid** 

Analysis Batch: 73799

Client Sample ID: BH24-01 0

Prep Type: Total/NA

Prep Batch: 73284

MS MS Sample Sample Spike %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits <0.00199 U 0.100 114 Benzene 0.1146 mg/Kg 70 - 130 Toluene <0.00199 U 0.100 0.08578 mg/Kg 86 70 - 130

## QC Sample Results

Client: Vertex Job ID: 890-6176-1 Project/Site: Mis Amigos SDG: 23E-05219

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

Lab Sample ID: 890-6176-1 MS

Analysis Batch: 73799

**Matrix: Solid** 

Client Sample ID: BH24-01 0 Prep Type: Total/NA

Prep Batch: 73284

| Sample   | Sample               | <b>Spike</b>       | MS  | MS   |  |   |   | %Rec  |   |   |
|----------|----------------------|--------------------|---|--|--|---|---|---|---|---|
| Result   | Qualifier            | Added              | Result  | Qualifier  | Unit   | D   | %Rec  | Limits  |   |   |
| <0.00199 | U                    | 0.100              | 0.08293   |  | mg/Kg  |   | 83  | 70 - 130  |   |   |
| <0.00398 | U                    | 0.200              | 0.1602  |  | mg/Kg  |   | 80  | 70 - 130  |   |   |
| <0.00199 | U                    | 0.100              | 0.08577   |  | mg/Kg  |   | 86  | 70 - 130  |   |   |
|          | <0.00199<br><0.00398 | Result   Qualifier | Result         Qualifier         Added           <0.00199 | Result         Qualifier         Added         Result           <0.00199 | Result         Qualifier         Added         Result         Qualifier           <0.00199 | Result         Qualifier         Added         Result         Qualifier         Unit           <0.00199 | Result          Qualifier         Added          Result          Qualifier          Unit mg/Kg         D           <0.00199 U | Result          Qualifier         Added          Result Qualifier         Qualifier         Unit Unit Unit Unit Unit Unit Unit Unit | Result         Qualifier         Added         Result         Qualifier         Unit         D         %Rec         Limits           <0.00199 | Result         Qualifier         Added         Result         Qualifier         Unit         D         %Rec         Limits           <0.00199 |

MS MS

| Surrogate                   | %Recovery Qualifi | er Limits |
|-----------------------------|-------------------|-----------|
| 4-Bromofluorobenzene (Surr) | 104               | 70 - 130  |
| 1,4-Difluorobenzene (Surr)  | 106               | 70 - 130  |

Client Sample ID: BH24-01 0

Prep Type: Total/NA

Prep Batch: 73284

**Matrix: Solid** Analysis Batch: 73799

Lab Sample ID: 890-6176-1 MSD

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Benzene <0.00199 U 0.101 0.1111 mg/Kg 110 70 - 130 3 35 0.08237 Toluene <0.00199 U 0.101 mg/Kg 82 70 - 130 4 35 Ethylbenzene <0.00199 U 0.101 0.07895 78 70 - 130 35 mg/Kg 5 0.201 76 70 - 130 35 m-Xylene & p-Xylene <0.00398 U 0.1528 mg/Kg 5 <0.00199 U 0.101 0.08147 81 70 - 130 o-Xylene mg/Kg 5

MSD MSD

| Surrogate                   | %Recovery | Qualifier | Limits   |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 106       |           | 70 - 130 |

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

Lab Sample ID: MB 880-73298/1-A

**Matrix: Solid** 

Analysis Batch: 73414

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

Prep Batch: 73298

MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte Gasoline Range Organics 50.0 02/15/24 17:16 02/18/24 07:38 <50.0 U mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 02/18/24 07:38 <50.0 U 50.0 02/15/24 17:16 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 02/15/24 17:16 02/18/24 07:38 mg/Kg

MB MB

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 207       | S1+       | 70 - 130 | 02/15/24 17:16 | 02/18/24 07:38 | 1       |
| o-Terphenyl    | 179       | S1+       | 70 - 130 | 02/15/24 17:16 | 02/18/24 07:38 | 1       |

Lab Sample ID: LCS 880-73298/2-A

**Matrix: Solid** 

Analysis Batch: 73414

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 73298

|                             | Spike | LCS    | LCS       |       |   |      | %Rec     |      |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|------|
| Analyte                     | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |      |
| Gasoline Range Organics     | 1000  | 842.3  |           | mg/Kg |   | 84   | 70 - 130 | <br> |
| (GRO)-C6-C10                |       |        |           |       |   |      |          |      |
| Diesel Range Organics (Over | 1000  | 870.2  |           | mg/Kg |   | 87   | 70 - 130 |      |
| C10-C28)                    |       |        |           |       |   |      |          |      |

Client: Vertex Job ID: 890-6176-1 Project/Site: Mis Amigos SDG: 23E-05219

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

LCS LCS

Lab Sample ID: LCS 880-73298/2-A Client Sample ID: Lab Control Sample

**Matrix: Solid** 

Analysis Batch: 73414

Prep Type: Total/NA

Prep Batch: 73298

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 94 70 - 130 o-Terphenyl 97 70 - 130

Lab Sample ID: LCSD 880-73298/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

Analysis Batch: 73414

Prep Type: Total/NA

Prep Batch: 73298

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 873.1 87 70 - 13020 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 1000 828.5 83 mg/Kg 70 - 1305 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 97 70 - 130 1-Chlorooctane 96 70 - 130 o-Terphenyl

Lab Sample ID: 890-6117-A-1-I MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

**Analysis Batch: 73414** 

Prep Type: Total/NA

Prep Batch: 73298

Sample Sample MS MS Spike Analyte Added Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.8 U 994 1185 mg/Kg 116 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 UF2 994 895.0 mg/Kg 88 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 100 o-Terphenyl 73 70 - 130

Lab Sample ID: 890-6117-A-1-J MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 73414

**Matrix: Solid** 

Prep Type: Total/NA

Prep Batch: 73298

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics U 994 1136 <49.8 mg/Kg 111 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U F2 994 1160 F2 mg/Kg 114 70 - 130 26 20

C10-C28)

MSD MSD

| Surrogate      | %Recovery | Qualifier | Limits   |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 126       |           | 70 - 130 |
| o-Terphenyl    | 93        |           | 70 - 130 |

Client: Vertex Project/Site: Mis Amigos

Job ID: 890-6176-1

SDG: 23E-05219

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

Lab Sample ID: MB 880-73300/1-A

Lab Sample ID: LCS 880-73300/2-A

Lab Sample ID: LCSD 880-73300/3-A

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 73423

Analysis Batch: 73423

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73300

|                                   | MB     | MB        |      |       |   |                |                |         |
|-----------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Analyte                           | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics           | <50.0  | U         | 50.0 | mg/Kg |   | 02/15/24 17:26 | 02/19/24 19:53 | 1       |
| (GRO)-C6-C10                      |        |           |      |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.0  | U         | 50.0 | mg/Kg |   | 02/15/24 17:26 | 02/19/24 19:53 | 1       |
| C10-C28)                          |        |           |      |       |   |                |                |         |
| OII Range Organics (Over C28-C36) | <50.0  | U         | 50.0 | mg/Kg |   | 02/15/24 17:26 | 02/19/24 19:53 | 1       |
|                                   |        |           |      |       |   |                |                |         |

MB MB

| Surrogate      | %Recovery | Qualifier | Limits   | Prepare    | d Analyzed        | Dil Fac |
|----------------|-----------|-----------|----------|------------|-------------------|---------|
| 1-Chlorooctane | 136       | S1+       | 70 - 130 | 02/15/24 1 | 7:26 02/19/24 19: | 53 1    |
| o-Terphenyl    | 151       | S1+       | 70 - 130 | 02/15/24 1 | 7:26 02/19/24 19: | 53 1    |

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 73300

LCS LCS Spike Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 955.9 mg/Kg 96 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over 851.6 mg/Kg 85 70 - 130C10-C28)

LCS LCS

| Surrogate      | %Recovery Qualifier | Limits   |
|----------------|---------------------|----------|
| 1-Chlorooctane | 88                  | 70 - 130 |
| o-Terphenyl    | 89                  | 70 - 130 |

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73300

Spike LCSD LCSD RPD %Rec %Rec Limit Analyte Added Result Qualifier RPD Unit D Limits Gasoline Range Organics 1000 926.7 mg/Kg 93 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 858.8 mg/Kg 86 70 - 130 20

C10-C28)

**Matrix: Solid** 

**Analysis Batch: 73423** 

LCSD LCSD

| Surrogate      | %Recovery Qualifier | Limits   |
|----------------|---------------------|----------|
| 1-Chlorooctane | 90                  | 70 - 130 |
| o-Terphenyl    | 93                  | 70 - 130 |

Lab Sample ID: 890-6178-A-1-G MS Client Sample ID: Matrix Spike

Ma

An

| Matrix: Solid        |               |       |       | Prep Type: Total/NA |
|----------------------|---------------|-------|-------|---------------------|
| nalysis Batch: 73423 |               |       |       | Prep Batch: 73300   |
|                      | Sample Sample | Spike | MS MS | %Rec                |

|                             |        |           | - 1   |        |           |       |   |      |          |      |
|-----------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|------|
| Analyte                     | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |      |
| Gasoline Range Organics     | <49.6  | U         | 1000  | 1024   |           | mg/Kg |   | 98   | 70 - 130 | <br> |
| (GRO)-C6-C10                |        |           |       |        |           |       |   |      |          |      |
| Diesel Range Organics (Over | <49.6  | U F1      | 1000  | 630.8  | F1        | mg/Kg |   | 60   | 70 - 130 |      |
| C10-C28)                    |        |           |       |        |           |       |   |      |          |      |

20

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Client: Vertex Job ID: 890-6176-1 Project/Site: Mis Amigos SDG: 23E-05219

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

Lab Sample ID: 890-6178-A-1-G MS Client Sample ID: Matrix Spike

**Matrix: Solid** Prep Type: Total/NA Analysis Batch: 73423 Prep Batch: 73300

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 73 70 - 130 o-Terphenyl 68 S1-70 - 130

Lab Sample ID: 890-6178-A-1-H MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 73423** Prep Batch: 73300

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.6 U 1000 1045 100 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000

602.8 F1

mg/Kg

57

70 - 130

C10-C28) MSD MSD

<49.6 U F1

мв мв

%Recovery Surrogate Qualifier Limits S1-70 - 130 1-Chlorooctane 68 64 S1-70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73212/1-A Client Sample ID: Method Blank

**Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 73435

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed 5.00 Chloride <5.00 U mg/Kg 02/17/24 01:33

Lab Sample ID: LCS 880-73212/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 73435** 

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 240.8 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-73212/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 73435** 

Chloride

Spike LCSD LCSD %Rec RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 241.4 97 90 - 110 20 mg/Kg

Lab Sample ID: 890-6176-9 MS Client Sample ID: BH24-03

**Matrix: Solid Prep Type: Soluble Analysis Batch: 73435** 

342.1

mg/Kg

93

90 - 110

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier %Rec Limits Unit

250

110

## **QC Sample Results**

Client: Vertex Job ID: 890-6176-1 Project/Site: Mis Amigos SDG: 23E-05219

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-6176-9 MSD Client Sample ID: BH24-03 **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 73435

|   | •        | Sample | Sample    | Spike | MSD    | MSD       |       |   |      | %Rec     |     | RPD   |
|---|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| l | Analyte  | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| L | Chloride | 110    |           | 250   | 344.3  |           | mg/Kg |   | 94   | 90 - 110 | 1   | 20    |

Client: Vertex Job ID: 890-6176-1 Project/Site: Mis Amigos SDG: 23E-05219

**GC VOA** 

Prep Batch: 73284

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6176-1         | BH24-01 0              | Total/NA  | Solid  | 5035   |            |
| 890-6176-2         | BH24-01 2              | Total/NA  | Solid  | 5035   |            |
| 890-6176-3         | BH24-01 4              | Total/NA  | Solid  | 5035   |            |
| 890-6176-4         | BH24-02 0              | Total/NA  | Solid  | 5035   |            |
| 890-6176-5         | BH24-02 2              | Total/NA  | Solid  | 5035   |            |
| 890-6176-6         | BH24-02 4              | Total/NA  | Solid  | 5035   |            |
| 890-6176-7         | BH24-03 0              | Total/NA  | Solid  | 5035   |            |
| 890-6176-8         | BH24-03 2              | Total/NA  | Solid  | 5035   |            |
| 890-6176-9         | BH24-03 4              | Total/NA  | Solid  | 5035   |            |
| 890-6176-10        | BH24-04 0              | Total/NA  | Solid  | 5035   |            |
| 890-6176-11        | BH24-04 2              | Total/NA  | Solid  | 5035   |            |
| 890-6176-12        | BH24-04 4              | Total/NA  | Solid  | 5035   |            |
| MB 880-73284/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-73284/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-73284/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-6176-1 MS      | BH24-01 0              | Total/NA  | Solid  | 5035   |            |
| 890-6176-1 MSD     | BH24-01 0              | Total/NA  | Solid  | 5035   |            |

Analysis Batch: 73799

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6176-1         | BH24-01 0              | Total/NA  | Solid  | 8021B  | 73284      |
| 890-6176-2         | BH24-01 2              | Total/NA  | Solid  | 8021B  | 73284      |
| 890-6176-3         | BH24-01 4              | Total/NA  | Solid  | 8021B  | 73284      |
| 890-6176-4         | BH24-02 0              | Total/NA  | Solid  | 8021B  | 73284      |
| 890-6176-5         | BH24-02 2              | Total/NA  | Solid  | 8021B  | 73284      |
| 890-6176-6         | BH24-02 4              | Total/NA  | Solid  | 8021B  | 73284      |
| 890-6176-7         | BH24-03 0              | Total/NA  | Solid  | 8021B  | 73284      |
| 890-6176-8         | BH24-03 2              | Total/NA  | Solid  | 8021B  | 73284      |
| 890-6176-9         | BH24-03 4              | Total/NA  | Solid  | 8021B  | 73284      |
| 890-6176-10        | BH24-04 0              | Total/NA  | Solid  | 8021B  | 73284      |
| 890-6176-11        | BH24-04 2              | Total/NA  | Solid  | 8021B  | 73284      |
| 890-6176-12        | BH24-04 4              | Total/NA  | Solid  | 8021B  | 73284      |
| MB 880-73284/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 73284      |
| LCS 880-73284/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 73284      |
| LCSD 880-73284/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 73284      |
| 890-6176-1 MS      | BH24-01 0              | Total/NA  | Solid  | 8021B  | 73284      |
| 890-6176-1 MSD     | BH24-01 0              | Total/NA  | Solid  | 8021B  | 73284      |

**Analysis Batch: 73844** 

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-6176-1    | BH24-01 0        | Total/NA  | Solid  | Total BTEX |            |
| 890-6176-2    | BH24-01 2        | Total/NA  | Solid  | Total BTEX |            |
| 890-6176-3    | BH24-01 4        | Total/NA  | Solid  | Total BTEX |            |
| 890-6176-4    | BH24-02 0        | Total/NA  | Solid  | Total BTEX |            |
| 890-6176-5    | BH24-02 2        | Total/NA  | Solid  | Total BTEX |            |
| 890-6176-6    | BH24-02 4        | Total/NA  | Solid  | Total BTEX |            |
| 890-6176-7    | BH24-03 0        | Total/NA  | Solid  | Total BTEX |            |
| 890-6176-8    | BH24-03 2        | Total/NA  | Solid  | Total BTEX |            |
| 890-6176-9    | BH24-03 4        | Total/NA  | Solid  | Total BTEX |            |
| 890-6176-10   | BH24-04 0        | Total/NA  | Solid  | Total BTEX |            |
| 890-6176-11   | BH24-04 2        | Total/NA  | Solid  | Total BTEX |            |

Client: Vertex

Project/Site: Mis Amigos

Job ID: 890-6176-1

SDG: 23E-05219

## **GC VOA (Continued)**

#### **Analysis Batch: 73844 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-6176-12   | BH24-04 4        | Total/NA  | Solid  | Total BTEX |            |

#### **GC Semi VOA**

#### Prep Batch: 73298

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-6176-9         | BH24-03 4              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6176-10        | BH24-04 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6176-11        | BH24-04 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6176-12        | BH24-04 4              | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-73298/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-73298/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-73298/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6117-A-1-I MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6117-A-1-J MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

#### Prep Batch: 73300

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-6176-1         | BH24-01 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6176-2         | BH24-01 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6176-3         | BH24-01 4              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6176-4         | BH24-02 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6176-5         | BH24-02 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6176-6         | BH24-02 4              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6176-7         | BH24-03 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6176-8         | BH24-03 2              | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-73300/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-73300/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-73300/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-A-1-G MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-A-1-H MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

#### Analysis Batch: 73414

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-6176-9         | BH24-03 4              | Total/NA  | Solid  | 8015B NM | 73298      |
| 890-6176-10        | BH24-04 0              | Total/NA  | Solid  | 8015B NM | 73298      |
| 890-6176-11        | BH24-04 2              | Total/NA  | Solid  | 8015B NM | 73298      |
| 890-6176-12        | BH24-04 4              | Total/NA  | Solid  | 8015B NM | 73298      |
| MB 880-73298/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 73298      |
| LCS 880-73298/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 73298      |
| LCSD 880-73298/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 73298      |
| 890-6117-A-1-I MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 73298      |
| 890-6117-A-1-J MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 73298      |

#### Analysis Batch: 73423

Released to Imaging: 4/16/2024 2:38:45 PM

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-6176-1    | BH24-01 0        | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6176-2    | BH24-01 2        | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6176-3    | BH24-01 4        | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6176-4    | BH24-02 0        | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6176-5    | BH24-02 2        | Total/NA  | Solid  | 8015B NM | 73300      |

Client: Vertex Job ID: 890-6176-1
Project/Site: Mis Amigos SDG: 23E-05219

## GC Semi VOA (Continued)

#### **Analysis Batch: 73423 (Continued)**

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-6176-6         | BH24-02 4              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6176-7         | BH24-03 0              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6176-8         | BH24-03 2              | Total/NA  | Solid  | 8015B NM | 73300      |
| MB 880-73300/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 73300      |
| LCS 880-73300/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 73300      |
| LCSD 880-73300/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-A-1-G MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-A-1-H MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 73300      |

#### Analysis Batch: 73540

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-6176-1    | BH24-01 0        | Total/NA  | Solid  | 8015 NM | _          |
| 890-6176-2    | BH24-01 2        | Total/NA  | Solid  | 8015 NM |            |
| 890-6176-3    | BH24-01 4        | Total/NA  | Solid  | 8015 NM |            |
| 890-6176-4    | BH24-02 0        | Total/NA  | Solid  | 8015 NM |            |
| 890-6176-5    | BH24-02 2        | Total/NA  | Solid  | 8015 NM |            |
| 890-6176-6    | BH24-02 4        | Total/NA  | Solid  | 8015 NM |            |
| 890-6176-7    | BH24-03 0        | Total/NA  | Solid  | 8015 NM |            |
| 890-6176-8    | BH24-03 2        | Total/NA  | Solid  | 8015 NM |            |
| 890-6176-9    | BH24-03 4        | Total/NA  | Solid  | 8015 NM |            |
| 890-6176-10   | BH24-04 0        | Total/NA  | Solid  | 8015 NM |            |
| 890-6176-11   | BH24-04 2        | Total/NA  | Solid  | 8015 NM |            |
| 890-6176-12   | BH24-04 4        | Total/NA  | Solid  | 8015 NM |            |

#### HPLC/IC

#### Leach Batch: 73212

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-6176-1         | BH24-01 0              | Soluble   | Solid  | DI Leach |            |
| 890-6176-2         | BH24-01 2              | Soluble   | Solid  | DI Leach |            |
| 890-6176-3         | BH24-01 4              | Soluble   | Solid  | DI Leach |            |
| 890-6176-4         | BH24-02 0              | Soluble   | Solid  | DI Leach |            |
| 890-6176-5         | BH24-02 2              | Soluble   | Solid  | DI Leach |            |
| 890-6176-6         | BH24-02 4              | Soluble   | Solid  | DI Leach |            |
| 890-6176-7         | BH24-03 0              | Soluble   | Solid  | DI Leach |            |
| 890-6176-8         | BH24-03 2              | Soluble   | Solid  | DI Leach |            |
| 890-6176-9         | BH24-03 4              | Soluble   | Solid  | DI Leach |            |
| 890-6176-10        | BH24-04 0              | Soluble   | Solid  | DI Leach |            |
| 890-6176-11        | BH24-04 2              | Soluble   | Solid  | DI Leach |            |
| 890-6176-12        | BH24-04 4              | Soluble   | Solid  | DI Leach |            |
| MB 880-73212/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-73212/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-73212/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-6176-9 MS      | BH24-03 4              | Soluble   | Solid  | DI Leach |            |
| 890-6176-9 MSD     | BH24-03 4              | Soluble   | Solid  | DI Leach |            |

#### Analysis Batch: 73435

| Lab Sample ID            | Client Sample ID       | Prep Type          | Matrix         | Method         | Prep Batch     |
|--------------------------|------------------------|--------------------|----------------|----------------|----------------|
| 890-6176-1<br>890-6176-2 | BH24-01 0<br>BH24-01 2 | Soluble<br>Soluble | Solid<br>Solid | 300.0<br>300.0 | 73212<br>73212 |
| 890-6176-3               | BH24-01 4              | Soluble            | Solid          | 300.0          | 73212          |

**Eurofins Carlsbad** 

1

3

4

6

8

9

4 4

12

13

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Client: Vertex Job ID: 890-6176-1
Project/Site: Mis Amigos SDG: 23E-05219

## **HPLC/IC (Continued)**

#### **Analysis Batch: 73435 (Continued)**

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6176-4         | BH24-02 0              | Soluble   | Solid  | 300.0  | 73212      |
| 890-6176-5         | BH24-02 2              | Soluble   | Solid  | 300.0  | 73212      |
| 890-6176-6         | BH24-02 4              | Soluble   | Solid  | 300.0  | 73212      |
| 890-6176-7         | BH24-03 0              | Soluble   | Solid  | 300.0  | 73212      |
| 890-6176-8         | BH24-03 2              | Soluble   | Solid  | 300.0  | 73212      |
| 890-6176-9         | BH24-03 4              | Soluble   | Solid  | 300.0  | 73212      |
| 890-6176-10        | BH24-04 0              | Soluble   | Solid  | 300.0  | 73212      |
| 890-6176-11        | BH24-04 2              | Soluble   | Solid  | 300.0  | 73212      |
| 890-6176-12        | BH24-04 4              | Soluble   | Solid  | 300.0  | 73212      |
| MB 880-73212/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 73212      |
| LCS 880-73212/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 73212      |
| LCSD 880-73212/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 73212      |
| 890-6176-9 MS      | BH24-03 4              | Soluble   | Solid  | 300.0  | 73212      |
| 890-6176-9 MSD     | BH24-03 4              | Soluble   | Solid  | 300.0  | 73212      |

5

7

0

4.6

11

12

12

Initial

Amount

5.03 g

5 mL

10.09 g

1 uL

4.98 g

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

Batch

73284

73799

73844

73540

73300

73423

73212

73435

Number

Dil

1

1

Factor

Run

Client: Vertex

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Project/Site: Mis Amigos

SDG: 23E-05219

Lab Sample ID: 890-6176-1

SM

TKC

SM

SA

СН

02/20/24 02:38

02/15/24 17:26

02/20/24 02:38

02/15/24 08:44

02/17/24 02:06

Client Sample ID: BH24-01
Date Collected: 02/12/24 09:40
Date Received: 02/14/24 08:28

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

4

300.0

8015 NM

Matrix: Solid

Job ID: 890-6176-1

 Prepared

 or Analyzed
 Analyst
 Lab

 02/15/24 15:33
 MNR
 EET MID

 02/21/24 19:05
 SM
 EET MID

 02/21/24 19:05
 SM
 EET MID

7

9

Client Sample ID: BH24-01 2

Date Collected: 02/12/24 09:50 Date Received: 02/14/24 08:28 **Lab Sample ID: 890-6176-2** 

Matrix: Solid

**EET MID** 

EET MID

**EET MID** 

FFT MID

**EET MID** 

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Lab **Analyst** Total/NA Prep 5035 5.05 g 5 mL 73284 02/15/24 15:33 MNR EET MID Total/NA 8021B Analysis 1 5 mL 5 mL 73799 02/21/24 19:26 SM EET MID Total/NA Total BTEX 73844 02/21/24 19:26 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 73540 02/20/24 03:00 SM **EET MID** 73300 Total/NA 8015NM Prep 9.94 g 10 mL 02/15/24 17:26 TKC FFT MID Prep Total/NA Analysis 8015B NM 1 uL 1 uL 73423 02/20/24 03:00 SM **EET MID** Soluble DI Leach 5.01 g 50 mL 73212 02/15/24 08:44 **EET MID** Leach SA Soluble Analysis 300.0 73435 02/17/24 02:10 СН **EET MID** 

Client Sample ID: BH24-01

Date Collected: 02/12/24 10:00 Date Received: 02/14/24 08:28 Lab Sample ID: 890-6176-3

Matrix: Solid

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.95 g  | 5 mL   | 73284  | 02/15/24 15:33 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73799  | 02/21/24 19:47 | SM      | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73844  | 02/21/24 19:47 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73540  | 02/20/24 03:22 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.94 g  | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/20/24 03:22 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.00 g  | 50 mL  | 73212  | 02/15/24 08:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73435  | 02/17/24 02:15 | CH      | EET MID |

Client Sample ID: BH24-02 0

Date Collected: 02/12/24 10:10 Date Received: 02/14/24 08:28

D: BH24-02 0 Lab Sample ID: 890-6176-4 12/24 10:10 Matrix: Solid

| _         | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035       |     |        | 4.97 g  | 5 mL   | 73284  | 02/15/24 15:33 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 73799  | 02/21/24 20:07 | SM      | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 73844  | 02/21/24 20:07 | SM      | EET MID |

Project/Site: Mis Amigos

Job ID: 890-6176-1

SDG: 23E-05219

Client Sample ID: BH24-02 0

Date Collected: 02/12/24 10:10 Date Received: 02/14/24 08:28 Lab Sample ID: 890-6176-4

Matrix: Solid

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73540  | 02/20/24 03:45 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.92 g  | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/20/24 03:45 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.02 g  | 50 mL  | 73212  | 02/15/24 08:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73435  | 02/17/24 02:29 | CH      | EET MID |

Client Sample ID: BH24-02 2

Date Collected: 02/12/24 10:20

Date Received: 02/14/24 08:28

Lab Sample ID: 890-6176-5

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab Total/NA 5035 73284 Prep 4.96 g 5 mL 02/15/24 15:33 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 73799 02/21/24 20:28 SM EET MID 1 Total/NA Total BTEX **EET MID** Analysis 1 73844 02/21/24 20:28 SM Total/NA Analysis 8015 NM 73540 02/20/24 04:07 SM EET MID Total/NA Prep 8015NM Prep 9.90 g 10 mL 73300 02/15/24 17:26 TKC **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 73423 02/20/24 04:07 SM **EET MID** Soluble Leach DI Leach 4.97 g 50 mL 73212 02/15/24 08:44 SA **EET MID** EET MID Soluble Analysis 300.0 1 73435 02/17/24 02:33 СН

Client Sample ID: BH24-02 4

Date Collected: 02/12/24 10:30

Date Received: 02/14/24 08:28

Lab Sample ID: 890-6176-6

Matrix: Solid

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.04 g  | 5 mL   | 73284  | 02/15/24 15:33 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73799  | 02/21/24 20:49 | SM      | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73844  | 02/21/24 20:49 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73540  | 02/20/24 04:29 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.06 g | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/20/24 04:29 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.95 g  | 50 mL  | 73212  | 02/15/24 08:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73435  | 02/17/24 02:38 | CH      | EET MID |

Client Sample ID: BH24-03 0

Date Collected: 02/12/24 10:40

Date Received: 02/14/24 08:28

Lab Sample ID: 890-6176-7

Matrix: Solid

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.01 g  | 5 mL   | 73284  | 02/15/24 15:33 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73799  | 02/21/24 21:10 | SM      | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73844  | 02/21/24 21:10 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73540  | 02/20/24 04:51 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.03 g | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/20/24 04:51 | SM      | EET MID |

Project/Site: Mis Amigos

Job ID: 890-6176-1

SDG: 23E-05219

Client Sample ID: BH24-03

Date Collected: 02/12/24 10:40 Date Received: 02/14/24 08:28 Lab Sample ID: 890-6176-7

Matrix: Solid

|           | Batch    | Batch    |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Soluble   | Leach    | DI Leach |     |        | 4.98 g  | 50 mL  | 73212  | 02/15/24 08:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0    |     | 1      |         |        | 73435  | 02/17/24 02:43 | CH      | EET MID |

**Client Sample ID: BH24-03** 

Date Collected: 02/12/24 10:50 Date Received: 02/14/24 08:28 Lab Sample ID: 890-6176-8

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.02 g  | 5 mL   | 73284  | 02/15/24 15:33 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73799  | 02/21/24 21:31 | SM      | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73844  | 02/21/24 21:31 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73540  | 02/20/24 05:14 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.00 g | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/20/24 05:14 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.03 g  | 50 mL  | 73212  | 02/15/24 08:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73435  | 02/17/24 02:47 | CH      | EET MID |

Client Sample ID: BH24-03

Date Collected: 02/12/24 11:00

Date Received: 02/14/24 08:28

Lab Sample ID: 890-6176-9

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.05 g  | 5 mL   | 73284  | 02/15/24 15:33 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73799  | 02/21/24 21:52 | SM      | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73844  | 02/21/24 21:52 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73540  | 02/18/24 17:20 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.09 g | 10 mL  | 73298  | 02/15/24 17:22 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73414  | 02/18/24 17:20 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.01 g  | 50 mL  | 73212  | 02/15/24 08:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73435  | 02/17/24 02:52 | CH      | EET MID |

Client Sample ID: BH24-04

Date Collected: 02/12/24 11:10

Date Received: 02/14/24 08:28

Lab Sample ID: 890-6176-10

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.96 g  | 5 mL   | 73284  | 02/15/24 15:33 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73799  | 02/21/24 22:13 | SM      | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73844  | 02/21/24 22:13 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73540  | 02/18/24 17:43 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.98 g  | 10 mL  | 73298  | 02/15/24 17:23 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73414  | 02/18/24 17:43 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.04 g  | 50 mL  | 73212  | 02/15/24 08:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73435  | 02/17/24 03:06 | CH      | EET MID |

Project/Site: Mis Amigos

Job ID: 890-6176-1

SDG: 23E-05219

Client Sample ID: BH24-04

2

Lab Sample ID: 890-6176-11

Matrix: Solid

Date Collected: 02/12/24 11:20 Date Received: 02/14/24 08:28

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.99 g  | 5 mL   | 73284  | 02/15/24 15:33 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73799  | 02/21/24 23:40 | SM      | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73844  | 02/21/24 23:40 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73540  | 02/18/24 18:06 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.92 g  | 10 mL  | 73298  | 02/15/24 17:23 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73414  | 02/18/24 18:06 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.05 g  | 50 mL  | 73212  | 02/15/24 08:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73435  | 02/17/24 03:11 | CH      | EET MID |

**Client Sample ID: BH24-04** 

4

Lab Sample ID: 890-6176-12

Matrix: Solid

Date Collected: 02/12/24 11:30 Date Received: 02/14/24 08:28

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.02 g  | 5 mL   | 73284  | 02/15/24 15:33 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73799  | 02/22/24 00:00 | SM      | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73844  | 02/22/24 00:00 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73540  | 02/18/24 18:29 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.95 g  | 10 mL  | 73298  | 02/15/24 17:23 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73414  | 02/18/24 18:29 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.05 g  | 50 mL  | 73212  | 02/15/24 08:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73435  | 02/17/24 03:24 | CH      | EET MID |

**Laboratory References:** 

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

# **Accreditation/Certification Summary**

Client: Vertex Job ID: 890-6176-1
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       | Progra                          | am                              | Identification Number                     | Expiration Date        |
|-----------------|---------------------------------|---------------------------------|---|------------------------|
| Texas           | NELA                            | Р                               | T104704400-23-26                          | 06-30-24               |
|                 | are included in this report, bu | it the laboratory is not certif | fied by the governing authority. This lis | t may include analytes |
| Analysis Method | Prep Method                     | Matrix                          | Analyte                                   |                        |
| 8015 NM         |                                 | Solid                           | Total TPH                                 |                        |
| Total BTEX      |                                 | Solid                           | Total BTEX                                |                        |

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EET MID

**EET MID** 

SW846

ASTM

### **Method Summary**

Client: Vertex Job ID: 890-6176-1
Project/Site: Mis Amigos SDG: 23E-05219

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID Total BTEX Calculation TAL SOP Total BTEX 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 **EET MID** Closed System Purge and Trap SW846

#### **Protocol References:**

8015NM Prep

DI Leach

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Deionized Water Leaching Procedure** 

#### Laboratory References:

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

**Eurofins Carlsbad** 

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4.0

# **Sample Summary**

Client: Vertex Job ID: 890-6176-1
Project/Site: Mis Amigos SDG: 23E-05219

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 890-6176-1    | BH24-01 0        | Solid  | 02/12/24 09:40 | 02/14/24 08:28 |
| 890-6176-2    | BH24-01 2        | Solid  | 02/12/24 09:50 | 02/14/24 08:28 |
| 890-6176-3    | BH24-01 4        | Solid  | 02/12/24 10:00 | 02/14/24 08:28 |
| 890-6176-4    | BH24-02 0        | Solid  | 02/12/24 10:10 | 02/14/24 08:28 |
| 890-6176-5    | BH24-02 2        | Solid  | 02/12/24 10:20 | 02/14/24 08:28 |
| 890-6176-6    | BH24-02 4        | Solid  | 02/12/24 10:30 | 02/14/24 08:28 |
| 890-6176-7    | BH24-03 0        | Solid  | 02/12/24 10:40 | 02/14/24 08:28 |
| 890-6176-8    | BH24-03 2        | Solid  | 02/12/24 10:50 | 02/14/24 08:28 |
| 890-6176-9    | BH24-03 4        | Solid  | 02/12/24 11:00 | 02/14/24 08:28 |
| 890-6176-10   | BH24-04 0        | Solid  | 02/12/24 11:10 | 02/14/24 08:28 |
| 890-6176-11   | BH24-04 2        | Solid  | 02/12/24 11:20 | 02/14/24 08:28 |
| 890-6176-12   | BH24-04 4        | Solid  | 02/12/24 11:30 | 02/14/24 08:28 |

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|  | 13/18/2024 3:38:55 PM  | Page 79 of 18.   |
|--|--|--|
| 105562/00/   | Comments  Comments  Comments  Comments  Confields RRC Superfund  Preservative Codes  None: NO DI Water: H₂O  Cool: Cool MeOH: Me  H₂PO₄: HP  NaHSO₄: HP  NaHSO A: NABIS  Na→S₂Oȝ: NASOS  Zn Acetate+NaOH: Zn  NaOH+Ascorbic Acid: SAPC  Sample Comments  Sample Comments   | Date/Time Date/Time  |
| M MAP - 23298<br>Work Order No: 105562 / 00 /  | Work Order Com  Work Order Com  Fig. 1   Level III   Page    FDD   | Hg: 1631/245.1   |
| 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 | ALYSIS REQUES Chain of Custo   | id Cr Co Cu Pb Mn M and subcontractors. It assigns state that such bosses are due to circum transfored. These terms will be entited and the contract of the co |
| Environment Testing  Midland, TX (4)  Kenco  EL Paso, TX (5)  Hobbs, NM (5)  | Company Name:  Address:  Address:  Address:  City, State ZIP:  Email:  Email:  City, State ZIP:  Correction Factor:  Correction Factor:  Corrected Temperature:  Corrected Tem | Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : BRCRA strictly method so and metal(s) to be analyzed TCLP / SPLP 6010 : BRCRA strictly and strictly method some surpressed or strictly any bases or caper of search samples and shall not assume any responsibility to any bases or caper of structures sensor and included to search samples submitted to be applied to each project and a charge of \$5 for each sample submitted to a Relinquished by: (Signature)  |
| M. 12, 24  | Project Manager: Callul Company Name: Vortex Address: City, State 2IP: Write Ample Project Number: 23E US 24 Project Number: 24E Number: 25AMPLE RECEIPT Temp Blan Sample Custody Seals: Yes No Cooler Containers: Sample Identification Number 24 Project Number 25 Project Number 25 Project Number: 25 Project Number: 25 Project Number 25 Project Number: 2 | Circle Method(s) and Metal(s) to be analyzed Notice: Signature of this document and relinquishment of samples const of samples and of Eurofins Xenco. Aminimum charge of \$85.00 will be applied to each I Relinquished by: (Signature)  Relinquished by: (Signature)  Recce  1  |
|  | ing: 4/16/2024 2:38:45 PM Page 34 of 37  | 2/22/2024  |

|       | 2.24   |   |  | 10158 pcec: 904/1   | +         |
|-------|--|---|--|---|-----------|
|       | eurofins En  | Environment Testing Midand, TX  | 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 Daco TX (015) 653-343 Inhbook TX (016) 709-3394  | Work Order No: 105562 100 1                                     | eed by OC |
|       |  |   | Hobbs, NM (575) 992-7550. Carlsbad, NM (575) 988-3199  |   | D: 3      |
|       | Project Manager Colle  | OM GAM Bill to: (if different)  | British Open   | www.xenco.com rage v v  | 2/18/2    |
|       |  |   | 0 XXO. 0   | Program: UST/PST   PRP   Brownfields   RRC   Superfund          |           |
|       | Address:   | Address:  | 300  | State of Project:   |           |
|       | City, State ZIP:   | 761   |  | ADaPT Other:  |           |
|       |  | 1 200   |  |   | 5 PA      |
|       | Project Name:  | Turn Around   | ANALYSIS REQUES  | None: NO DI Water: H <sub>2</sub> O                             |           |
|       | S  | Due Date:   | (  | Cool: Cool MeOH: Me   |           |
|       | Sampler's Name: (b) (A) (32)   | TAT starts the day received by the lab, if received by 4-30pm   | (2   | H.C. H. NAOH: NA  |           |
|       | SAMPLE RECEIPT Temp Blank:   | Jark: Yes No Wet Ice: Yes No  | S)(C)  | H³PO4: HP   |           |
|       | tact:  | -   |  | NaHSO 4: NABIS  |           |
| Pa    | No S   | A/A   | ]>   | Na 25 20 3: Na 30 3<br>Zn Acetate + Na OH: Zn                   |           |
| ne i  | Total Containers:  | N/A lemperature yadung.   | Ho   | NaOH+Ascorbic Acid: SAPC  |           |
| 35 of | Sample Identification  | Time Depth Grab/  | JC toot woth   | Sample Comments   |           |
| 37    | 0 ho- helia  | 9 11:40 0   | 9  |   |           |
|       | DHOW ON DO   | P 0000  |  |   |           |
|       |  |   |  |   |           |
|       |  |   |  |   | -1/       |
|       |  |   |  |   | ТТ        |
|       |  |   |  |   |           |
|       |  |   |  |   |           |
| 1     | Total 200.7 / 6010 200.8 / 6020:   | 8RCR.   | sb As Ba Be B Cd Ca Cr Co  | g Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U               | 1         |
|       | Circle Method(s) and Metal(s) to be analyzed   | be analyzed TCLP / SPLP 6010 : 8RCRA  | RA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni   | Se Ag II U Hg: 1631 / 245.1 / /4/0 / /4/1                       |           |
|       | Notice: Signature of this document and relinquishms of service. Eurofins Xenco will be liable only for the cof Eurofins Xenco. Aminimum charge of \$85.00 will | Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from Client company to<br>of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or ex<br>of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted | 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 assignts 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 services beyond the control of such control and such assuments of the control of services of the servic | rms and conditions eyond the control ess previously negotiated. |           |
|       | Relinquished by: (Signature)   | Received by: (Signature)  | Date/Time Relinquished by: (Signature)   | ture) Received by: (Signature) Date/Time                        |           |
| 2/2   | " July a Ha  | adhelm  | 9:13 2/14  |   | Pa        |
| 22/2  | 3 (  |   | 7  |   | ge 8      |
| 024   | 5  |   | 2  | Revised Date 08/25/2020 Rev 2020.2                              | 70 oj     |
|       |  |   | 1 1  | 3<br>2<br>3<br>7<br>8<br>9<br>1                                 | f 182     |
|       |  |   | 3  | 1<br>5<br>7<br>9<br>0   |           |

# **Login Sample Receipt Checklist**

Client: Vertex Job Number: 890-6176-1 SDG Number: 23E-05219

Login Number: 6176 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: 890-6176-1 SDG Number: 23E-05219

Login Number: 6176
List Source: Eurofins Midland
List Number: 2
List Creation: 02/15/24 11:38 AM

Creator: Wheeler, Jazmine

| Question   | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| 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.  | 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    |         |

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**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

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

Generated 2/22/2024 11:59:25 AM

# **JOB DESCRIPTION**

Mis Amigos

# **JOB NUMBER**

890-6178-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

# **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 2/22/2024 11:59:25 AM

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

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Client: Vertex
Laboratory Job ID: 890-6178-1
Project/Site: Mis Amigos

# **Table of Contents**

| Cover Page             | 1  |
|------------------------|----|
| Table of Contents      | 3  |
| Definitions/Glossary   | 4  |
| Case Narrative         | 5  |
| Client Sample Results  | 6  |
| Surrogate Summary      | 15 |
| QC Sample Results      | 16 |
| QC Association Summary | 21 |
| Lab Chronicle          | 25 |
| Certification Summary  | 29 |
| Method Summary         | 30 |
| Sample Summary         | 31 |
| Chain of Custody       | 32 |
| Receipt Checklists     | 34 |

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## **Definitions/Glossary**

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

#### **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                                    |
|-----------|--|
| 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. |
| HPI C/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.                                 |
| n              | 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 Positive / Present POS **Practical Quantitation Limit** PQL

**PRES** Presumptive **Quality Control** QC

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 Job ID: 890-6178-1
Project: Mis Amigos

Job ID: 890-6178-1 Eurofins Carlsbad

#### Job Narrative 890-6178-1

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 2/14/2024 8:13 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 0.2°C.

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: BH24-05 0 (890-6178-1), BH24-05 2 (890-6178-2), BH24-05 4 (890-6178-3), BH24-06 0 (890-6178-4), BH24-06 2 (890-6178-5), BH24-06 4 (890-6178-6), BH24-07 0 (890-6178-7), BH24-07 2 (890-6178-8), BH24-07 4 (890-6178-9), BH24-08 0 (890-6178-10), BH24-08 2 (890-6178-11) and BH24-08 4 (890-6178-12).

#### **GC VOA**

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-73285 and analytical batch 880-73718 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 880-73300 and analytical batch 880-73423 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: BH24-06 2 (890-6178-5), BH24-08 0 (890-6178-10), (890-6178-A-1-G MS) and (890-6178-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73300 and analytical batch 880-73423 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.

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.

**Eurofins Carlsbad** 

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Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

Client Sample ID: BH24-05 0 Lab Sample ID: 890-6178-1

Date Collected: 02/13/24 10:00 Matrix: Solid

Date Received: 02/14/24 08:13

| Analyte   | Result             | Qualifier                    | RL  | Unit                          | D        | Prepared  | Analyzed   | Dil Fa |
|---|--------------------|------------------------------|---|-------------------------------|----------|---|--|--------|
| Benzene   | <0.00199           | U                            | 0.00199   | mg/Kg                         |          | 02/15/24 15:38  | 02/22/24 00:23   |        |
| Toluene   | < 0.00199          | U                            | 0.00199   | mg/Kg                         |          | 02/15/24 15:38  | 02/22/24 00:23   |        |
| Ethylbenzene  | < 0.00199          | U                            | 0.00199   | mg/Kg                         |          | 02/15/24 15:38  | 02/22/24 00:23   |        |
| m-Xylene & p-Xylene   | <0.00398           | U                            | 0.00398   | mg/Kg                         |          | 02/15/24 15:38  | 02/22/24 00:23   |        |
| o-Xylene  | < 0.00199          | U                            | 0.00199   | mg/Kg                         |          | 02/15/24 15:38  | 02/22/24 00:23   |        |
| Xylenes, Total  | <0.00398           | U                            | 0.00398   | mg/Kg                         |          | 02/15/24 15:38  | 02/22/24 00:23   |        |
| Surrogate   | %Recovery          | Qualifier                    | Limits  |                               |          | Prepared  | Analyzed   | Dil Fa |
| 4-Bromofluorobenzene (Surr)   | 104                |                              | 70 - 130  |                               |          | 02/15/24 15:38  | 02/22/24 00:23   |        |
| 1,4-Difluorobenzene (Surr)  | 103                |                              | 70 - 130  |                               |          | 02/15/24 15:38  | 02/22/24 00:23   |        |
| Method: TAL SOP Total BTEX -  | Total BTEX Cald    | culation                     |   |                               |          |   |  |        |
| Analyte   | Result             | Qualifier                    | RL  | Unit                          | D        | Prepared  | Analyzed   | Dil Fa |
| Total BTEX  | <0.00398           | U                            | 0.00398   | mg/Kg                         |          |   | 02/22/24 00:23   |        |
| Analyte Total TPH   |                    | Qualifier<br>U               |   | Unit                          | D        | Prepared  | Analyzed   | Dil Fa |
| Total TPH   | <49.6              | U                            | 49.6  |                               |          |   |  |        |
|   |                    |                              | 40.0  | mg/Kg                         |          |   | 02/19/24 21:01   |        |
| Method: SW846 8015B NM - Die  | sel Range Orga     | nics (DRO)                   |   | mg/Kg                         |          |   | 02/19/24 21:01   |        |
|   |                    | nics (DRO)<br>Qualifier      |   | mg/Kg<br>Unit                 | D        | Prepared  | 02/19/24 21:01  Analyzed   | Dil Fa |
| Analyte   |                    | Qualifier                    | (GC)  |                               | <u>D</u> | Prepared 02/15/24 17:26   |  |        |
| Analyte Gasoline Range Organics (GRO)-C6-C10  | Result   <49.6     | Qualifier<br>U               | (GC) RL 49.6  | <mark>Unit</mark><br>mg/Kg    | <u>D</u> | 02/15/24 17:26  | <b>Analyzed</b> 02/19/24 21:01   | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result             | Qualifier<br>U               | (GC)  | Unit                          | <u>D</u> | <u>.</u>  | Analyzed   | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)   | Result  <49.6      | Qualifier<br>U<br>U F1       | (GC)  RL  49.6                                      | <b>Unit</b><br>mg/Kg<br>mg/Kg | <u> </u> | 02/15/24 17:26  | Analyzed 02/19/24 21:01 02/19/24 21:01   | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)   | Result   <49.6     | Qualifier<br>U<br>U F1       | (GC) RL 49.6  | <mark>Unit</mark><br>mg/Kg    | <u> </u> | 02/15/24 17:26  | <b>Analyzed</b> 02/19/24 21:01   | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)                                       | Result  <49.6      | Qualifier U U F1             | (GC)  RL  49.6                                      | <b>Unit</b><br>mg/Kg<br>mg/Kg | <u>D</u> | 02/15/24 17:26  | Analyzed 02/19/24 21:01 02/19/24 21:01   | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                            | Result <49.6 <49.6 | Qualifier U U F1             | (GC)  RL  49.6  49.6  49.6                          | <b>Unit</b><br>mg/Kg<br>mg/Kg | <u>D</u> | 02/15/24 17:26<br>02/15/24 17:26<br>02/15/24 17:26                                      | Analyzed 02/19/24 21:01 02/19/24 21:01 02/19/24 21:01                          | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane             | Result             | Qualifier U U F1             | (GC)  RL 49.6  49.6  49.6  Limits                   | <b>Unit</b><br>mg/Kg<br>mg/Kg | <u>D</u> | 02/15/24 17:26<br>02/15/24 17:26<br>02/15/24 17:26<br>Prepared                          | Analyzed 02/19/24 21:01 02/19/24 21:01 02/19/24 21:01 Analyzed                 | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl | Result             | Qualifier U U F1 U Qualifier | (GC)  RL 49.6  49.6  49.6  Limits 70 - 130 70 - 130 | <b>Unit</b><br>mg/Kg<br>mg/Kg | <u> </u> | 02/15/24 17:26<br>02/15/24 17:26<br>02/15/24 17:26<br><b>Prepared</b><br>02/15/24 17:26 | Analyzed 02/19/24 21:01 02/19/24 21:01 02/19/24 21:01  Analyzed 02/19/24 21:01 | Dil Fa |
|   | Result             | Qualifier U U F1 U Qualifier | (GC)  RL 49.6  49.6  49.6  Limits 70 - 130 70 - 130 | <b>Unit</b><br>mg/Kg<br>mg/Kg | <u>D</u> | 02/15/24 17:26<br>02/15/24 17:26<br>02/15/24 17:26<br><b>Prepared</b><br>02/15/24 17:26 | Analyzed 02/19/24 21:01 02/19/24 21:01 02/19/24 21:01  Analyzed 02/19/24 21:01 | Dil Fa |

Client Sample ID: BH24-05 2 Lab Sample ID: 890-6178-2

Date Collected: 02/13/24 10:10 Date Received: 02/14/24 08:13

| Method: SW846 8021B - Volati | le Organic Comp | ounds (GC) | )        |       |   |                |                |         |
|------------------------------|-----------------|------------|----------|-------|---|----------------|----------------|---------|
| Analyte                      | Result          | Qualifier  | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene                      | <0.00198        | U          | 0.00198  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 00:43 | 1       |
| Toluene                      | <0.00198        | U          | 0.00198  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 00:43 | 1       |
| Ethylbenzene                 | <0.00198        | U          | 0.00198  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 00:43 | 1       |
| m-Xylene & p-Xylene          | <0.00396        | U          | 0.00396  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 00:43 | 1       |
| o-Xylene                     | <0.00198        | U          | 0.00198  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 00:43 | 1       |
| Xylenes, Total               | <0.00396        | U          | 0.00396  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 00:43 | 1       |
| Surrogate                    | %Recovery       | Qualifier  | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)  | 114             |            | 70 - 130 |       |   | 02/15/24 15:38 | 02/22/24 00:43 | 1       |
| 1,4-Difluorobenzene (Surr)   | 108             |            | 70 - 130 |       |   | 02/15/24 15:38 | 02/22/24 00:43 | 1       |

**Eurofins Carlsbad** 

**Matrix: Solid** 

# **Client Sample Results**

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

Client Sample ID: BH24-05 2 Lab Sample ID: 890-6178-2

Date Collected: 02/13/24 10:10 Matrix: Solid

Date Received: 02/14/24 08:13

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result         | Qualifier   | RL           | Unit           | D | Prepared                         | Analyzed       | Dil Fac      |
|--|----------------|-------------|--------------|----------------|---|----------------------------------|----------------|--------------|
| Total BTEX   | <0.00396       | U           | 0.00396      | mg/Kg          |   |                                  | 02/22/24 00:43 | 1            |
| Method: SW846 8015 NM - Diese  | l Range Organ  | ics (DRO) ( | GC)          |                |   |                                  |                |              |
| Analyte  | Result         | Qualifier   | RL           | Unit           | D | Prepared                         | Analyzed       | Dil Fac      |
| Total TPH  | <50.5          | U           | 50.5         | mg/Kg          |   |                                  | 02/19/24 22:09 | 1            |
| -<br>Method: SW846 8015B NM - Dies   | sel Range Orga | nics (DRO)  | (GC)         |                |   |                                  |                |              |
| Analyte  | Result         | Qualifier   | RL           | Unit           | D | Prepared                         | Analyzed       | Dil Fac      |
| Gasoline Range Organics  | <50.5          | U           | 50.5         | mg/Kg          |   | 02/15/24 17:26                   | 02/19/24 22:09 | 1            |
|  |                |             |              |                |   |                                  |                |              |
| (GRO)-C6-C10   |                |             |              |                |   |                                  |                |              |
| (GRO)-C6-C10<br>Diesel Range Organics (Over                                  | <50.5          | U           | 50.5         | mg/Kg          |   | 02/15/24 17:26                   | 02/19/24 22:09 | 1            |
| ,  | <50.5          | U           | 50.5         | mg/Kg          |   | 02/15/24 17:26                   | 02/19/24 22:09 | 1            |
| Diesel Range Organics (Over  | <50.5<br><50.5 |             | 50.5<br>50.5 | mg/Kg<br>mg/Kg |   | 02/15/24 17:26<br>02/15/24 17:26 | 02/19/24 22:09 | 1            |
| Diesel Range Organics (Over C10-C28)   |                | U           |              |                |   |                                  |                | 1<br>Dil Fac |
| Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36) | <50.5          | U           | 50.5         |                |   | 02/15/24 17:26                   | 02/19/24 22:09 | Dil Fac      |

 Analyte
 Result Qualifier
 RL
 Unit
 D Prepared
 Analyzed
 Dil Fac

 Chloride
 81.4
 5.01
 mg/Kg
 02/17/24 03:34
 1

Client Sample ID: BH24-05 4

Date Collected: 02/13/24 10:20

Date Received: 02/14/24 08:13

Lab Sample ID: 890-6178-3

Matrix: Solid

| Analyte  | Result   | Qualifier   | RL                       | Unit                       | D        | Prepared          | Analyzed   | Dil Fac |
|--|--|---|--------------------------|----------------------------|----------|-------------------|--|---------|
| Benzene  | <0.00202   | U   | 0.00202                  | mg/Kg                      |          | 02/15/24 15:38    | 02/22/24 01:04                                   |         |
| Toluene  | <0.00202   | U   | 0.00202                  | mg/Kg                      |          | 02/15/24 15:38    | 02/22/24 01:04                                   | ,       |
| Ethylbenzene   | <0.00202   | U   | 0.00202                  | mg/Kg                      |          | 02/15/24 15:38    | 02/22/24 01:04                                   | ,       |
| m-Xylene & p-Xylene  | <0.00404   | U   | 0.00404                  | mg/Kg                      |          | 02/15/24 15:38    | 02/22/24 01:04                                   |         |
| o-Xylene   | <0.00202   | U   | 0.00202                  | mg/Kg                      |          | 02/15/24 15:38    | 02/22/24 01:04                                   |         |
| Xylenes, Total   | <0.00404   | U   | 0.00404                  | mg/Kg                      |          | 02/15/24 15:38    | 02/22/24 01:04                                   | •       |
| Surrogate  | %Recovery  | Qualifier   | Limits                   |                            |          | Prepared          | Analyzed   | Dil Fa  |
| 4-Bromofluorobenzene (Surr)  | 123  |   | 70 - 130                 |                            |          | 02/15/24 15:38    | 02/22/24 01:04                                   |         |
| 4.4.0%   | 106  |   | 70 - 130                 |                            |          | 02/15/24 15:38    | 02/22/24 01:04                                   |         |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte   | - Total BTEX Cald  | culation<br>Qualifier                                   | RL                       | Unit                       | D        | Prepared          | Analyzed   |         |
| Method: TAL SOP Total BTEX   | - Total BTEX Cald  |   |                          |                            |          |                   |  |         |
| Method: TAL SOP Total BTEX Analyte   | - Total BTEX Cald  | Qualifier   |                          | <mark>Unit</mark><br>mg/Kg | <u>D</u> |                   |  | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die   | - Total BTEX Calc<br>Result<br><0.00404<br>esel Range Organ                      | Qualifier U   | RL 0.00404               | mg/Kg                      |          | Prepared          | Analyzed 02/22/24 01:04                          | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte                                       | - Total BTEX Calc Result <0.00404 esel Range Organ Result                        | Qualifier U ics (DRO) ( Qualifier                       | RL 0.00404               | mg/Kg                      | <u>D</u> |                   | Analyzed   | Dil Fac |
| Method: TAL SOP Total BTEX   | - Total BTEX Calc<br>Result<br><0.00404<br>esel Range Organ                      | Qualifier U ics (DRO) ( Qualifier                       | RL 0.00404               | mg/Kg                      |          | Prepared          | Analyzed 02/22/24 01:04                          | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte                                       | - Total BTEX Calc Result <0.00404 esel Range Organ Result <49.9                  | Qualifier U ics (DRO) ( Qualifier U                     | RL 0.00404  GC) RL 49.9  | mg/Kg                      |          | Prepared          | Analyzed 02/22/24 01:04  Analyzed                | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH                             | - Total BTEX Calc Result <0.00404 esel Range Organ Result <49.9 iesel Range Orga | Qualifier U ics (DRO) ( Qualifier U                     | RL 0.00404  GC) RL 49.9  | mg/Kg                      |          | Prepared          | Analyzed 02/22/24 01:04  Analyzed                | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D | - Total BTEX Calc Result <0.00404 esel Range Organ Result <49.9 iesel Range Orga | Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier | RL 0.00404  GC)  RL 49.9 | mg/Kg  Unit  mg/Kg         | <u>D</u> | Prepared Prepared | Analyzed 02/22/24 01:04  Analyzed 02/19/24 22:31 | Dil Fa  |

Job ID: 890-6178-1

Project/Site: Mis Amigos

Client: Vertex

Client Sample ID: BH24-05

Lab Sample ID: 890-6178-3 Date Collected: 02/13/24 10:20

Matrix: Solid

Date Received: 02/14/24 08:13

| Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) |           |           |          |       |   |                |                |         |  |  |
|---|-----------|-----------|----------|-------|---|----------------|----------------|---------|--|--|
| Analyte   | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |  |  |
| Oll Range Organics (Over C28-C36)                                     | <49.9     | U         | 49.9     | mg/Kg |   | 02/15/24 17:26 | 02/19/24 22:31 | 1       |  |  |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |  |  |
| 1-Chlorooctane  | 104       |           | 70 - 130 |       |   | 02/15/24 17:26 | 02/19/24 22:31 | 1       |  |  |
| o-Terphenyl   | 114       |           | 70 - 130 |       |   | 02/15/24 17:26 | 02/19/24 22:31 | 1       |  |  |

| Method: EPA 300.0 - Anions, Ion Chi | romatography - Soluble |      |       |   |          |                |         |
|-------------------------------------|------------------------|------|-------|---|----------|----------------|---------|
| Analyte                             | Result Qualifier       | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                            | 116                    | 5.02 | mg/Kg |   |          | 02/17/24 03:39 | 1       |

**Client Sample ID: BH24-06** 

Lab Sample ID: 890-6178-4 Date Collected: 02/13/24 10:30 Matrix: Solid

Date Received: 02/14/24 08:13

| Analyte                     | Result            | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-------------------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201          | U         | 0.00201  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 01:25 | 1       |
| Toluene                     | <0.00201          | U         | 0.00201  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 01:25 | 1       |
| Ethylbenzene                | <0.00201          | U         | 0.00201  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 01:25 | 1       |
| m-Xylene & p-Xylene         | <0.00402          | U         | 0.00402  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 01:25 | 1       |
| o-Xylene                    | <0.00201          | U         | 0.00201  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 01:25 | 1       |
| Xylenes, Total              | <0.00402          | U         | 0.00402  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 01:25 | 1       |
| Surrogate                   | %Recovery         | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 122               |           | 70 - 130 |       |   | 02/15/24 15:38 | 02/22/24 01:25 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105               |           | 70 - 130 |       |   | 02/15/24 15:38 | 02/22/24 01:25 | 1       |
| Method: TAL SOP Total BTEX  | - Total BTEX Cald | culation  |          |       |   |                |                |         |
| Analyte                     | Result            | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total BTEX                  | <0.00402          | U         | 0.00402  | mg/Kg |   |                | 02/22/24 01:25 |         |

| Method: SW846 8015 NM - Diesel Ran | ge Organ | ics (DRO) (G  | C)   |       |   |          |                |         |
|------------------------------------|----------|---------------|------|-------|---|----------|----------------|---------|
| Analyte                            | Result   | Qualifier     | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Total TPH                          | <49.7    | U             | 49.7 | mg/Kg |   |          | 02/19/24 22:54 | 1       |
| Method: SW846 8015B NM - Diesel Ra | nge Orga | nics (DRO) (0 | GC)  |       |   |          |                |         |

| Analyte                           | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics           | <49.7     | U         | 49.7     | mg/Kg |   | 02/15/24 17:26 | 02/19/24 22:54 | 1       |
| (GRO)-C6-C10                      |           |           |          |       |   |                |                |         |
| Diesel Range Organics (Over       | <49.7     | U         | 49.7     | mg/Kg |   | 02/15/24 17:26 | 02/19/24 22:54 | 1       |
| C10-C28)                          |           |           |          |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <49.7     | U         | 49.7     | mg/Kg |   | 02/15/24 17:26 | 02/19/24 22:54 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 82        |           | 70 - 130 |       |   | 02/15/24 17:26 | 02/19/24 22:54 | 1       |
| o-Terphenvl                       | 86        |           | 70 - 130 |       |   | 02/15/24 17:26 | 02/19/24 22:54 | 1       |

| Method: EPA 300.0 - Anions, Ion C | hromatography - Sol | uble |       |   |          |                |         |
|-----------------------------------|---------------------|------|-------|---|----------|----------------|---------|
| Analyte                           | Result Qualifier    | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                          | 122                 | 4.99 | mg/Kg |   |          | 02/17/24 03:43 | 1       |

Job ID: 890-6178-1

Project/Site: Mis Amigos

Client: Vertex

Client Sample ID: BH24-06 2

Lab Sample ID: 890-6178-5

Date Collected: 02/13/24 10:40 Matrix: Solid Date Received: 02/14/24 08:13

| Analyte  | Result  | Qualifier  | RL  | Unit                          | D        | Prepared   | Analyzed  | Dil Fac   |
|--|---|--|---|-------------------------------|----------|--|---|-----------|
| Benzene  | <0.00202  | U  | 0.00202   | mg/Kg                         |          | 02/15/24 15:38   | 02/22/24 01:45  | 1         |
| Toluene  | <0.00202  | U  | 0.00202   | mg/Kg                         |          | 02/15/24 15:38   | 02/22/24 01:45  | 1         |
| Ethylbenzene   | <0.00202  | U  | 0.00202   | mg/Kg                         |          | 02/15/24 15:38   | 02/22/24 01:45  | 1         |
| m-Xylene & p-Xylene  | <0.00403  | U  | 0.00403   | mg/Kg                         |          | 02/15/24 15:38   | 02/22/24 01:45  | 1         |
| o-Xylene   | <0.00202  | U  | 0.00202   | mg/Kg                         |          | 02/15/24 15:38   | 02/22/24 01:45  | 1         |
| Xylenes, Total   | <0.00403  | U  | 0.00403   | mg/Kg                         |          | 02/15/24 15:38   | 02/22/24 01:45  | 1         |
| Surrogate  | %Recovery   | Qualifier  | Limits  |                               |          | Prepared   | Analyzed  | Dil Fac   |
| 4-Bromofluorobenzene (Surr)  |   |  | 70 - 130  |                               |          | 02/15/24 15:38   | 02/22/24 01:45  | 1         |
| 1,4-Difluorobenzene (Surr)   | 105   |  | 70 - 130  |                               |          | 02/15/24 15:38   | 02/22/24 01:45  | 1         |
| Method: TAL SOP Total BTEX -   | Total BTEX Cald   | culation   |   |                               |          |  |   |           |
| Analyte  | Result  | Qualifier  | RL  | Unit                          | D        | Prepared   | Analyzed  | Dil Fac   |
| Total BTEX   | <0.00403  | U  | 0.00403   | mg/Kg                         |          |  | 02/22/24 01:45  |           |
| :<br>Method: SW846 8015 NM - Diese   | el Range Organ  | ics (DRO) (  |   | mg/kg                         |          |  |   |           |
| Method: SW846 8015 NM - Diese<br>Analyte   | el Range Organ<br>Result  | ics (DRO) (  | GC)   | Unit                          | D        | Prepared   | Analyzed  | Dil Fac   |
| :<br>Method: SW846 8015 NM - Diese   | el Range Organ  | ics (DRO) (  | GC)   |                               | <u>D</u> | Prepared   |   |           |
| Method: SW846 8015 NM - Diese<br>Analyte   | el Range Organ Result <50.0   | ics (DRO) (Gualifier   | RL 50.0   | Unit                          | <u>D</u> | Prepared   | Analyzed  |           |
| Method: SW846 8015 NM - Diese<br>Analyte<br>Total TPH  | el Range Organ Result <50.0 sel Range Organ   | ics (DRO) (Gualifier   | RL 50.0   | Unit                          | <u>D</u> | Prepared Prepared  | Analyzed  | 1         |
| Method: SW846 8015 NM - Diese<br>Analyte Total TPH  Method: SW846 8015B NM - Die<br>Analyte Gasoline Range Organics  | el Range Organ Result <50.0 sel Range Organ   | Qualifier Unics (DRO) Qualifier Qualifier                              | RL 50.0   | Unit<br>mg/Kg                 |          | <u> </u>   | Analyzed 02/19/24 23:16   | 1 Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over   | el Range Organ Result <a href="#">Result</a> < 50.0 sel Range Organ Result                              | ics (DRO) ( Qualifier U enics (DRO) Qualifier U                        | GC)  RL  50.0  (GC)  RL   | Unit mg/Kg                    |          | Prepared   | Analyzed 02/19/24 23:16 Analyzed  | Dil Fac   |
| Method: SW846 8015 NM - Diese<br>Analyte Total TPH  Method: SW846 8015B NM - Die<br>Analyte Gasoline Range Organics<br>(GRO)-C6-C10  | el Range Organ Result <50.0  sel Range Orga Result <50.0  | ics (DRO) ( Qualifier U enics (DRO) Qualifier U                        | (GC)  RL  50.0  (GC)  RL  50.0  | Unit mg/Kg  Unit mg/Kg        |          | Prepared 02/15/24 17:26  | Analyzed 02/19/24 23:16  Analyzed 02/19/24 23:16  | Dil Fac   |
| Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)  | el Range Organ Result <50.0  sel Range Orga Result <50.0 <50.0  | ics (DRO) ( Qualifier U enics (DRO) Qualifier U U U                    | GC) RL 50.0  (GC) RL 50.0  50.0                                       | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 02/15/24 17:26 02/15/24 17:26   | Analyzed 02/19/24 23:16  Analyzed 02/19/24 23:16 02/19/24 23:16   | 1 Dil Fac |
| Method: SW846 8015 NM - Diese<br>Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)                                       | el Range Organ Result <50.0  sel Range Orga Result <50.0 <50.0 <50.0                                    | ics (DRO) ( Qualifier U enics (DRO) Qualifier U U                      | GC) RL 50.0  (GC) RL 50.0  50.0  50.0                                 | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 02/15/24 17:26 02/15/24 17:26 02/15/24 17:26                          | Analyzed 02/19/24 23:16  Analyzed 02/19/24 23:16 02/19/24 23:16 02/19/24 23:16                          | Dil Fac   |
| Method: SW846 8015 NM - Diese<br>Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                            | el Range Organ  | ics (DRO) ( Qualifier U  unics (DRO) Qualifier U  U  Qualifier         | GC) RL 50.0  (GC) RL 50.0  50.0  50.0  Limits                         | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 02/15/24 17:26 02/15/24 17:26 02/15/24 17:26 Prepared                 | Analyzed 02/19/24 23:16  Analyzed 02/19/24 23:16 02/19/24 23:16 02/19/24 23:16 Analyzed                 | Dil Fac   |
| Method: SW846 8015 NM - Dieso<br>Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane             | el Range Organ  | ics (DRO) ( Qualifier U  unics (DRO) Qualifier U  U  Qualifier S1- S1- | GC)  RL  50.0  (GC)  RL  50.0  50.0  50.0  Limits  70 - 130  70 - 130 | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 02/15/24 17:26 02/15/24 17:26 02/15/24 17:26  Prepared 02/15/24 17:26 | Analyzed 02/19/24 23:16  Analyzed 02/19/24 23:16 02/19/24 23:16 02/19/24 23:16  Analyzed 02/19/24 23:16 | Dil Fac   |
| Method: SW846 8015 NM - Diese<br>Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl | el Range Organ Result <50.0  sel Range Orga Result <50.0  <50.0  <50.0  <%Recovery 69 69 n Chromatograp | ics (DRO) ( Qualifier U  unics (DRO) Qualifier U  U  Qualifier S1- S1- | GC)  RL  50.0  (GC)  RL  50.0  50.0  50.0  Limits  70 - 130  70 - 130 | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 02/15/24 17:26 02/15/24 17:26 02/15/24 17:26  Prepared 02/15/24 17:26 | Analyzed 02/19/24 23:16  Analyzed 02/19/24 23:16 02/19/24 23:16 02/19/24 23:16  Analyzed 02/19/24 23:16 | Dil Fac   |

Client Sample ID: BH24-06 Lab Sample ID: 890-6178-6 **Matrix: Solid** 

Date Collected: 02/13/24 10:50 Date Received: 02/14/24 08:13

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 02:06 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 02:06 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 02:06 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 02:06 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 02:06 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 02:06 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 126       |           | 70 - 130 |       |   | 02/15/24 15:38 | 02/22/24 02:06 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 |       |   | 02/15/24 15:38 | 02/22/24 02:06 | 1       |

# **Client Sample Results**

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

Client Sample ID: BH24-06 Lab Sample ID: 890-6178-6

Date Collected: 02/13/24 10:50 Matrix: Solid

Date Received: 02/14/24 08:13

| Analyte                           | Result        | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Total BTEX                        | <0.00397      | U           | 0.00397  | mg/Kg |   |                | 02/22/24 02:06 | 1       |
| Method: SW846 8015 NM - Diesel    | Range Organ   | ics (DRO) ( | GC)      |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                         | <50.3         | U           | 50.3     | mg/Kg |   |                | 02/19/24 23:39 | 1       |
| Method: SW846 8015B NM - Diese    | el Range Orga | nics (DRO)  | (GC)     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics           | <50.3         | U           | 50.3     | mg/Kg |   | 02/15/24 17:26 | 02/19/24 23:39 | 1       |
| (GRO)-C6-C10                      |               |             |          |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.3         | U           | 50.3     | mg/Kg |   | 02/15/24 17:26 | 02/19/24 23:39 | 1       |
| C10-C28)                          |               |             |          |       |   |                |                |         |
| OII Range Organics (Over C28-C36) | <50.3         | U           | 50.3     | mg/Kg |   | 02/15/24 17:26 | 02/19/24 23:39 | 1       |
| Surrogate                         | %Recovery     | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 107           | ·           | 70 - 130 |       |   | 02/15/24 17:26 | 02/19/24 23:39 | 7       |
| o-Terphenyl                       | 114           |             | 70 - 130 |       |   | 02/15/24 17:26 | 02/19/24 23:39 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatogran  | hy - Solubl | e        |       |   |                |                |         |
| Analyte                           | • •           | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fa  |

5.04 Client Sample ID: BH24-07 Lab Sample ID: 890-6178-7 0

mg/Kg

Date Collected: 02/13/24 11:00

99.7

Date Received: 02/14/24 08:13

Released to Imaging: 4/16/2024 2:38:45 PM

Chloride

| Analyte  | Result   | Qualifier  | RL                       | Unit               | D               | Prepared                | Analyzed   | Dil Fac                   |
|--|--|--|--------------------------|--------------------|-----------------|-------------------------|--|---------------------------|
| Benzene  | <0.00200   | U  | 0.00200                  | mg/Kg              |                 | 02/15/24 15:38          | 02/22/24 02:26                                   | 1                         |
| Toluene  | <0.00200   | U  | 0.00200                  | mg/Kg              |                 | 02/15/24 15:38          | 02/22/24 02:26                                   | 1                         |
| Ethylbenzene   | <0.00200   | U  | 0.00200                  | mg/Kg              |                 | 02/15/24 15:38          | 02/22/24 02:26                                   | 1                         |
| m-Xylene & p-Xylene  | <0.00399   | U  | 0.00399                  | mg/Kg              |                 | 02/15/24 15:38          | 02/22/24 02:26                                   | 1                         |
| o-Xylene   | <0.00200   | U  | 0.00200                  | mg/Kg              |                 | 02/15/24 15:38          | 02/22/24 02:26                                   | 1                         |
| Xylenes, Total   | <0.00399   | U  | 0.00399                  | mg/Kg              |                 | 02/15/24 15:38          | 02/22/24 02:26                                   | 1                         |
| Surrogate  | %Recovery  | Qualifier  | Limits                   |                    |                 | Prepared                | Analyzed   | Dil Fac                   |
| 4-Bromofluorobenzene (Surr)  | 120  |  | 70 - 130                 |                    |                 | 02/15/24 15:38          | 02/22/24 02:26                                   | 1                         |
|  |  |  |                          |                    |                 |                         |  |                           |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX   |  |  | 70 - 130                 |                    |                 | 02/15/24 15:38          | 02/22/24 02:26                                   | ·                         |
| Method: TAL SOP Total BTEX Analyte   | - Total BTEX Cald  | Qualifier  | 70 - 130  RL 0.00399     | Unit<br>mg/Kg      | <u>D</u>        | 02/15/24 15:38 Prepared | 02/22/24 02:26  Analyzed  02/22/24 02:26         | Dil Fac                   |
|  | - Total BTEX Calc<br>Result<br><0.00399                        | <b>Qualifier</b><br>U                                    | RL<br>0.00399            |                    | <u>D</u>        |                         | Analyzed   | Dil Fac                   |
| Method: TAL SOP Total BTEX Analyte Total BTEX  | - Total BTEX Calc Result <                                     | <b>Qualifier</b><br>U                                    | RL<br>0.00399            |                    | <u>D</u>        |                         | Analyzed   | Dil Fac                   |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die   | - Total BTEX Calc Result <                                     | Qualifier U ics (DRO) ( Qualifier                        | RL 0.00399               | mg/Kg              |                 | Prepared                | Analyzed 02/22/24 02:26                          | Dil Fac                   |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte                                       | - Total BTEX Calc Result <0.00399 sel Range Organ Result <50.1 | Qualifier U ics (DRO) ( Qualifier U                      | RL 0.00399  GC)  RL 50.1 | mg/Kg              |                 | Prepared                | Analyzed 02/22/24 02:26 Analyzed                 | Dil Fac                   |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH                             | - Total BTEX Calc Result <0.00399 sel Range Organ Result <50.1 | Qualifier U ics (DRO) ( Qualifier U                      | RL 0.00399  GC)  RL 50.1 | mg/Kg              |                 | Prepared                | Analyzed 02/22/24 02:26 Analyzed                 | Dil Fac  Dil Fac  Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D | - Total BTEX Calc Result <0.00399 sel Range Organ Result <50.1 | Qualifier U ics (DRO) ( Qualifier U nics (DRO) Qualifier | RL 0.00399  GC) RL 50.1  | mg/Kg  Unit  mg/Kg | <u></u> <u></u> | Prepared Prepared       | Analyzed 02/22/24 02:26  Analyzed 02/20/24 00:01 | Dil Fac                   |

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02/17/24 03:52

**Matrix: Solid** 

Job ID: 890-6178-1

Project/Site: Mis Amigos

Client: Vertex

Client Sample ID: BH24-07

Lab Sample ID: 890-6178-7 Date Collected: 02/13/24 11:00

Matrix: Solid

Date Received: 02/14/24 08:13

| Method: SW846 8015B NM | - Diesel Range Orga | nics (DRO | ) (GC) (Continued) |
|------------------------|---------------------|-----------|--------------------|
| Analyte                | Result              | Qualifier | RL                 |

| Analyte                           | Result    | Qualifier | RL       | Unit  | D | Prepared                       | Analyzed                | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|--------------------------------|-------------------------|---------|
| Oll Range Organics (Over C28-C36) | <50.1     | U         | 50.1     | mg/Kg |   | 02/15/24 17:26                 | 02/20/24 00:01          | 1       |
|                                   |           |           |          |       |   |                                |                         |         |
| Surrogate                         | %Recovery | Qualifier | Limits   |       |   | Prepared                       | Analyzed                | Dil Fac |
| Surrogate<br>1-Chlorooctane       |           | Qualifier | 70 - 130 |       |   | <b>Prepared</b> 02/15/24 17:26 | Analyzed 02/20/24 00:01 | Dil Fac |

| Method: EPA 300.0 - Anions, | Ion Chromatography - Soluble |
|-----------------------------|------------------------------|
| Analysta                    | Popult Qualifier             |

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 85.7   |           | 5.05 | mg/Kg |   |          | 02/19/24 15:54 | 1       |

Client Sample ID: BH24-07

Date Collected: 02/13/24 11:10 Date Received: 02/14/24 08:13

Lab Sample ID: 890-6178-8

**Matrix: Solid** 

| ı | Wethod: 544646 6021B - | voiatile Organic | Compounds (GC    | ') |
|---|------------------------|------------------|------------------|----|
| ı | Analyto                |                  | Popult Qualifier |    |

| Analyte             | Result    | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199  | U         | 0.00199 | mg/Kg |   | 02/15/24 15:38 | 02/22/24 02:47 | 1       |
| Toluene             | <0.00199  | U         | 0.00199 | mg/Kg |   | 02/15/24 15:38 | 02/22/24 02:47 | 1       |
| Ethylbenzene        | <0.00199  | U         | 0.00199 | mg/Kg |   | 02/15/24 15:38 | 02/22/24 02:47 | 1       |
| m-Xylene & p-Xylene | <0.00398  | U         | 0.00398 | mg/Kg |   | 02/15/24 15:38 | 02/22/24 02:47 | 1       |
| o-Xylene            | < 0.00199 | U         | 0.00199 | mg/Kg |   | 02/15/24 15:38 | 02/22/24 02:47 | 1       |
| Xylenes, Total      | <0.00398  | U         | 0.00398 | mg/Kg |   | 02/15/24 15:38 | 02/22/24 02:47 | 1       |
| Surrogate           | %Recovery | Qualifier | Limits  |       |   | Prepared       | Analyzed       | Dil Fac |

| Surrogate                   | %Recovery | Qualifier | Limits   |   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|---|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113       |           | 70 - 130 | 0 | 02/15/24 15:38 | 02/22/24 02:47 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 | 0 | 02/15/24 15:38 | 02/22/24 02:47 | 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 |   |          | 02/22/24 02:47 | 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 |   |          | 02/20/24 00:23 | 1       |

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

| Analyte                           | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics           | <50.4  | U         | 50.4 | mg/Kg |   | 02/15/24 17:26 | 02/20/24 00:23 | 1       |
| (GRO)-C6-C10                      |        |           |      |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.4  | U         | 50.4 | mg/Kg |   | 02/15/24 17:26 | 02/20/24 00:23 | 1       |
| C10-C28)                          |        |           |      |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <50.4  | U         | 50.4 | mg/Kg |   | 02/15/24 17:26 | 02/20/24 00:23 | 1       |
|                                   |        |           |      |       |   |                |                |         |

| Surrogate      | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 80                  | 70 - 130 | 02/15/24 17:26 | 02/20/24 00:23 | 1       |
| o-Terphenyl    | 79                  | 70 - 130 | 02/15/24 17:26 | 02/20/24 00:23 | 1       |

#### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 73.9   |           | 5.05 | mg/Kg |   |          | 02/19/24 16:14 | 1       |

# **Client Sample Results**

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

Client Sample ID: BH24-07

Lab Sample ID: 890-6178-9

Date Collected: 02/13/24 11:20 Matrix: Solid Date Received: 02/14/24 08:13

| Analyte  | Result                                    | Qualifier   | RL   | Unit                      | D        | Prepared   | Analyzed   | Dil Fac                         |
|--|---|---|--|---------------------------|----------|--|--|---------------------------------|
| Benzene  | <0.00198                                  | U   | 0.00198  | mg/Kg                     |          | 02/15/24 15:38   | 02/22/24 03:07   | 1                               |
| Toluene  | <0.00198                                  | U   | 0.00198  | mg/Kg                     |          | 02/15/24 15:38   | 02/22/24 03:07   | 1                               |
| Ethylbenzene   | <0.00198                                  | U   | 0.00198  | mg/Kg                     |          | 02/15/24 15:38   | 02/22/24 03:07   | 1                               |
| m-Xylene & p-Xylene  | <0.00396                                  | U   | 0.00396  | mg/Kg                     |          | 02/15/24 15:38   | 02/22/24 03:07   | 1                               |
| o-Xylene   | <0.00198                                  | U   | 0.00198  | mg/Kg                     |          | 02/15/24 15:38   | 02/22/24 03:07   | 1                               |
| Xylenes, Total   | <0.00396                                  | U   | 0.00396  | mg/Kg                     |          | 02/15/24 15:38   | 02/22/24 03:07   | 1                               |
| Surrogate  | %Recovery                                 | Qualifier   | Limits   |                           |          | Prepared   | Analyzed   | Dil Fac                         |
| 4-Bromofluorobenzene (Surr)  | 119                                       |   | 70 - 130   |                           |          | 02/15/24 15:38   | 02/22/24 03:07   | 1                               |
| 1,4-Difluorobenzene (Surr)   | 107                                       |   | 70 - 130   |                           |          | 02/15/24 15:38   | 02/22/24 03:07   | 1                               |
| Method: TAL SOP Total BTEX - 1   | Total BTEX Cald                           | culation  |  |                           |          |  |  |                                 |
| Analyte  | Result                                    | Qualifier   | RL   | Unit                      | D        | Prepared   | Analyzed   | Dil Fac                         |
| Total BTEX   | <0.00396                                  | U   | 0.00396  | mg/Kg                     |          |  | 02/22/24 03:07   | 1                               |
|  | •   |   | •  |                           | _        |  |  | 5".5                            |
| Analyte  | Result                                    | Qualifier   | RL   | Unit                      | D        | Prepared   | Analyzed   | Dil Fac                         |
| Method: SW846 8015 NM - Diese<br>Analyte   | •   | Qualifier   | •  | Unit<br>mg/Kg             | <u>D</u> | Prepared   | Analyzed 02/20/24 00:46  |                                 |
| Analyte Total TPH  | Result   <50.5                            | Qualifier U                                       | RL 50.5  |                           | <u>D</u> | Prepared   |  |                                 |
| Analyte Total TPH  | Result <50.5                              | Qualifier U                                       | RL 50.5  |                           | <u>D</u> | Prepared Prepared  |  | 1                               |
| Total TPH  Method: SW846 8015B NM - Dies   | Result <50.5                              | Qualifier Unics (DRO) Qualifier                   | RL 50.5  | mg/Kg                     |          | · · ·  | 02/20/24 00:46   | 1 Dil Fac                       |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte   | Result <50.5  sel Range Orga Result       | Qualifier Unics (DRO) Qualifier                   | RL 50.5 (GC)   | mg/Kg                     |          | Prepared   | 02/20/24 00:46  Analyzed   | 1 Dil Fac                       |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result <50.5  sel Range Orga Result       | Qualifier U  nics (DRO) Qualifier U               | RL 50.5 (GC)   | mg/Kg                     |          | Prepared   | 02/20/24 00:46  Analyzed   | 1 Dil Fac                       |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)   | Result                                    | Qualifier U  nics (DRO) Qualifier U               | RL 50.5  (GC)  RL 50.5  50.5   | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 02/15/24 17:26 02/15/24 17:26   | 02/20/24 00:46  Analyzed 02/20/24 00:46 02/20/24 00:46   | 1 Dil Fac                       |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result <50.5  sel Range Orga Result <50.5 | Qualifier U  nics (DRO) Qualifier U               | RL 50.5  (GC) RL 50.5  | mg/Kg  Unit  mg/Kg        |          | Prepared 02/15/24 17:26  | 02/20/24 00:46  Analyzed  02/20/24 00:46   | 1 Dil Fac                       |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                            | Result                                    | Qualifier U  nics (DRO) Qualifier U               | RL 50.5  (GC)  RL 50.5  50.5  50.5  Limits   | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 02/15/24 17:26 02/15/24 17:26 02/15/24 17:26 Prepared                 | 02/20/24 00:46  Analyzed 02/20/24 00:46 02/20/24 00:46 02/20/24 00:46  Analyzed                  | Dil Fac                         |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)                                       | Result                                    | Qualifier U  nics (DRO) Qualifier U  U            | RL 50.5  (GC)  RL 50.5  50.5  50.5   | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 02/15/24 17:26 02/15/24 17:26 02/15/24 17:26                          | 02/20/24 00:46  Analyzed 02/20/24 00:46 02/20/24 00:46 02/20/24 00:46                            | Dil Fac  1  1  Dil Fac  Dil Fac |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                            | Result                                    | Qualifier U  nics (DRO) Qualifier U  U            | RL 50.5  (GC)  RL 50.5  50.5  50.5  Limits   | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 02/15/24 17:26 02/15/24 17:26 02/15/24 17:26 Prepared                 | 02/20/24 00:46  Analyzed 02/20/24 00:46 02/20/24 00:46 02/20/24 00:46  Analyzed                  | Dil Fac                         |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane             | Result                                    | Qualifier U  nics (DRO) Qualifier U  U  Qualifier | RL<br>50.5<br>(GC)<br>RL<br>50.5<br>50.5<br>50.5<br>Limits<br>70 - 130<br>70 - 130 | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 02/15/24 17:26 02/15/24 17:26 02/15/24 17:26  Prepared 02/15/24 17:26 | 02/20/24 00:46  Analyzed 02/20/24 00:46  02/20/24 00:46  02/20/24 00:46  Analyzed 02/20/24 00:46 | 1 Dil Fac 1 1 1 Dil Fac 1 1     |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl | Result                                    | Qualifier U  nics (DRO) Qualifier U  U  Qualifier | RL<br>50.5<br>(GC)<br>RL<br>50.5<br>50.5<br>50.5<br>Limits<br>70 - 130<br>70 - 130 | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 02/15/24 17:26 02/15/24 17:26 02/15/24 17:26  Prepared 02/15/24 17:26 | 02/20/24 00:46  Analyzed 02/20/24 00:46  02/20/24 00:46  02/20/24 00:46  Analyzed 02/20/24 00:46 |                                 |

Client Sample ID: BH24-08 Lab Sample ID: 890-6178-10

Date Collected: 02/13/24 11:30 Date Received: 02/14/24 08:13

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 03:28 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 03:28 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 03:28 | 1       |
| m-Xylene & p-Xylene         | <0.00403  | U         | 0.00403  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 03:28 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 03:28 | 1       |
| Xylenes, Total              | <0.00403  | U         | 0.00403  | mg/Kg |   | 02/15/24 15:38 | 02/22/24 03:28 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 130       |           | 70 - 130 |       |   | 02/15/24 15:38 | 02/22/24 03:28 | 1       |
| 1.4-Difluorobenzene (Surr)  | 112       |           | 70 - 130 |       |   | 02/15/24 15:38 | 02/22/24 03:28 | 1       |

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Released to Imaging: 4/16/2024 2:38:45 PM

**Matrix: Solid** 

# **Client Sample Results**

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

Client Sample ID: BH24-08 0 Lab Sample ID: 890-6178-10

Date Collected: 02/13/24 11:30 Matrix: Solid Date Received: 02/14/24 08:13

| Analyte                               | Result      | Qualifier                | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|-------------|--------------------------|----------|-------|---|----------------|----------------|---------|
| Total BTEX                            | <0.00403    | U                        | 0.00403  | mg/Kg |   |                | 02/22/24 03:28 | 1       |
| Method: SW846 8015 NM - Diese         | Range Organ | ics (DRO) (              | GC)      |       |   |                |                |         |
| Analyte                               | Result      | Qualifier                | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                             | <49.8       | U                        | 49.8     | mg/Kg |   |                | 02/20/24 01:09 | 1       |
| Gasoline Range Organics               | <49.8       | U                        | 49.8     | mg/Kg |   | 02/15/24 17:26 | 02/20/24 01:09 |         |
| Method: SW846 8015B NM - Dies Analyte | • •         | Control (DRO)  Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| (GRO)-C6-C10                          | <49.8       |                          | 49.8     | ma/Ka |   | 02/15/24 17:26 | 02/20/24 01:09 | 4       |
| Diesel Range Organics (Over C10-C28)  | <49.0       | U                        | 49.0     | mg/Kg |   | 02/15/24 17:26 | 02/20/24 01:09 | ,       |
| Oll Range Organics (Over C28-C36)     | <49.8       | U                        | 49.8     | mg/Kg |   | 02/15/24 17:26 | 02/20/24 01:09 | 1       |
| Surrogate                             | %Recovery   | Qualifier                | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                        | 64          | S1-                      | 70 - 130 |       |   | 02/15/24 17:26 | 02/20/24 01:09 | 1       |
| o-Terphenyl                           | 68          | S1-                      | 70 - 130 |       |   | 02/15/24 17:26 | 02/20/24 01:09 |         |

Analyte Result Qualifier Dil Fac RLUnit D Prepared Analyzed 02/19/24 16:28 4.96 Chloride 81.2 mg/Kg Client Sample ID: BH24-08 2 Lab Sample ID: 890-6178-11

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Date Collected: 02/13/24 11:40 | Matrix: Solid |
|--------------------------------|---------------|
| Date Received: 02/14/24 08:13  |               |
| Г                              |               |

| Analyte  | Result   | Qualifier  | RL                       | Unit               | D        | Prepared                 | Analyzed   | Dil Fa  |
|--|--|--|--------------------------|--------------------|----------|--------------------------|--|---------|
| Benzene  | <0.00200   | U  | 0.00200                  | mg/Kg              |          | 02/15/24 15:38           | 02/22/24 05:19                                   |         |
| Toluene  | <0.00200   | U  | 0.00200                  | mg/Kg              |          | 02/15/24 15:38           | 02/22/24 05:19                                   | •       |
| Ethylbenzene   | <0.00200   | U  | 0.00200                  | mg/Kg              |          | 02/15/24 15:38           | 02/22/24 05:19                                   | ,       |
| m-Xylene & p-Xylene  | <0.00401   | U  | 0.00401                  | mg/Kg              |          | 02/15/24 15:38           | 02/22/24 05:19                                   |         |
| o-Xylene   | <0.00200   | U  | 0.00200                  | mg/Kg              |          | 02/15/24 15:38           | 02/22/24 05:19                                   | 1       |
| Xylenes, Total   | <0.00401   | U  | 0.00401                  | mg/Kg              |          | 02/15/24 15:38           | 02/22/24 05:19                                   |         |
| Surrogate  | %Recovery  | Qualifier  | Limits                   |                    |          | Prepared                 | Analyzed   | Dil Fac |
| 4-Bromofluorobenzene (Surr)  | 93   |  | 70 - 130                 |                    |          | 02/15/24 15:38           | 02/22/24 05:19                                   |         |
| 4-bromonuorobenzene (Surr)   | •  |  |                          |                    |          |                          |  |         |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX   | 108  |  | 70 - 130                 |                    | _        | 02/15/24 15:38           | 02/22/24 05:19                                   |         |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX   | 108  | culation<br>Qualifier                                      | 70 - 130<br>RL           | Unit               | D        |                          | 02/22/24 05:19 Analyzed                          | Dil Fac |
| 1,4-Difluorobenzene (Surr)   | 108  | Qualifier  |                          | Unit mg/Kg         | <u>D</u> | 02/15/24 15:38  Prepared |  | Dil Fac |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte   | - Total BTEX Cald<br>Result<br><0.00401  | <b>Qualifier</b><br>U                                      | RL 0.00401               |                    | <u>D</u> |                          | Analyzed   | Dil Fac |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX   | - Total BTEX Cald Result <0.00401 esel Range Organ                             | <b>Qualifier</b><br>U                                      | RL 0.00401               |                    | <u>D</u> |                          | Analyzed   | Dil Fac |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die   | - Total BTEX Cald Result <0.00401 esel Range Organ                             | Qualifier U ics (DRO) (Qualifier                           | RL 0.00401               | mg/Kg              |          | Prepared                 | Analyzed 02/22/24 05:19                          | 1       |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX  Method: SW846 8015 NM - Die Analyte  | - Total BTEX Calc Result <0.00401 esel Range Organ Result <49.9                | Qualifier U ics (DRO) ( Qualifier U                        | RL 0.00401  GC)  RL 49.9 | mg/Kg              |          | Prepared                 | Analyzed 02/22/24 05:19 Analyzed                 | Dil Fac |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH                               | - Total BTEX Cald<br>Result<br><0.00401<br>esel Range Organ<br>Result<br><49.9 | Qualifier U ics (DRO) ( Qualifier U                        | RL 0.00401  GC)  RL 49.9 | mg/Kg              |          | Prepared                 | Analyzed 02/22/24 05:19 Analyzed                 | Dil Fac |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX  Method: SW846 8015 NM - Die Analyte  Total TPH  Method: SW846 8015B NM - D | - Total BTEX Cald<br>Result<br><0.00401<br>esel Range Organ<br>Result<br><49.9 | Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier | RL 0.00401  GC)  RL 49.9 | mg/Kg  Unit  mg/Kg | <u>D</u> | Prepared Prepared        | Analyzed 02/22/24 05:19  Analyzed 02/20/24 01:53 | Dil Fac |

Job ID: 890-6178-1

Project/Site: Mis Amigos

Client: Vertex

Client Sample ID: BH24-08 2

Lab Sample ID: 890-6178-11 Date Collected: 02/13/24 11:40

**Matrix: Solid** Date Received: 02/14/24 08:13

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Result Qualifier Unit D Prepared Analyzed Dil Fac Oll Range Organics (Over C28-C36) <49.9 49.9 mg/Kg 02/15/24 17:26 02/20/24 01:53 Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 70 - 130 02/15/24 17:26 1-Chlorooctane 02/20/24 01:53 101 o-Terphenyl 106 70 - 130 02/15/24 17:26 02/20/24 01:53

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL Unit D Dil Fac Analyte Prepared Analyzed 4.99 02/19/24 16:35 Chloride 65.9 mg/Kg

Client Sample ID: BH24-08

Lab Sample ID: 890-6178-12 Date Collected: 02/13/24 11:50 **Matrix: Solid** 

Date Received: 02/14/24 08:13

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 U 0.00199 02/15/24 15:38 02/22/24 05:39 mg/Kg Toluene <0.00199 U 0.00199 02/15/24 15:38 02/22/24 05:39 mg/Kg Ethylbenzene <0.00199 0.00199 02/15/24 15:38 02/22/24 05:39 mg/Kg 02/15/24 15:38 m-Xylene & p-Xylene 02/22/24 05:39 < 0.00398 U 0.00398 mg/Kg o-Xylene <0.00199 U 0.00199 mg/Kg 02/15/24 15:38 02/22/24 05:39 Xylenes, Total <0.00398 U 0.00398 mg/Kg 02/15/24 15:38 02/22/24 05:39 %Recovery Limits Dil Fac Surrogate Qualifier Prepared Analyzed 70 - 130 02/15/24 15:38 4-Bromofluorobenzene (Surr) 113 02/22/24 05:39 1,4-Difluorobenzene (Surr) 111 70 - 130 02/15/24 15:38 02/22/24 05:39 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Total BTEX <0.00398 U 0.00398 mg/Kg 02/22/24 05:39 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier Dil Fac RL Unit D Prepared Analyzed Total TPH <49.9 Ū 49.9 02/20/24 02:16 mg/Kg Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL Unit Prepared Analyzed Dil Fac <49.9 U 49.9 02/15/24 17:26 02/20/24 02:16 Gasoline Range Organics mg/Kg

(GRO)-C6-C10 02/15/24 17:26 02/20/24 02:16 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg OII Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 02/15/24 17:26 02/20/24 02:16

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 80 70 - 130 02/15/24 17:26 02/20/24 02:16 82 02/15/24 17:26 o-Terphenyl 70 - 130 02/20/24 02:16

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier Unit RL Prepared Analyzed Dil Fac Chloride 5.04 mg/Kg 02/19/24 16:55 71.2

# **Surrogate Summary**

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

|                    |                        |          |          | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------|--|
|                    |                        | BFB1     | DFBZ1    |  |
| Lab Sample ID      | Client Sample ID       | (70-130) | (70-130) |  |
| 890-6178-1         | BH24-05 0              | 104      | 103      |  |
| 890-6178-1 MS      | BH24-05 0              | 109      | 103      |  |
| 890-6178-1 MSD     | BH24-05 0              | 120      | 97       |  |
| 890-6178-2         | BH24-05 2              | 114      | 108      |  |
| 890-6178-3         | BH24-05 4              | 123      | 106      |  |
| 890-6178-4         | BH24-06 0              | 122      | 105      |  |
| 890-6178-5         | BH24-06 2              | 111      | 105      |  |
| 890-6178-6         | BH24-06 4              | 126      | 108      |  |
| 890-6178-7         | BH24-07 0              | 120      | 105      |  |
| 890-6178-8         | BH24-07 2              | 113      | 108      |  |
| 890-6178-9         | BH24-07 4              | 119      | 107      |  |
| 890-6178-10        | BH24-08 0              | 130      | 112      |  |
| 890-6178-11        | BH24-08 2              | 93       | 108      |  |
| 890-6178-12        | BH24-08 4              | 113      | 111      |  |
| LCS 880-73285/1-A  | Lab Control Sample     | 118      | 107      |  |
| LCSD 880-73285/2-A | Lab Control Sample Dup | 110      | 97       |  |
| MB 880-73275/5-A   | Method Blank           | 127      | 109      |  |
| MB 880-73285/5-A   | Method Blank           | 135 S1+  | 113      |  |
| Surrogate Legend   |                        |          |          |  |

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

|                    |                        |          |          | Percent Surrogate Recovery (Acce |
|--------------------|------------------------|----------|----------|----------------------------------|
|                    |                        | 1CO1     | OTPH1    |                                  |
| Lab Sample ID      | Client Sample ID       | (70-130) | (70-130) |                                  |
| 390-6178-1         | BH24-05 0              | 77       | 76       |                                  |
| 390-6178-1 MS      | BH24-05 0              | 73       | 68 S1-   |                                  |
| 390-6178-1 MSD     | BH24-05 0              | 68 S1-   | 64 S1-   |                                  |
| 390-6178-2         | BH24-05 2              | 100      | 108      |                                  |
| 390-6178-3         | BH24-05 4              | 104      | 114      |                                  |
| 390-6178-4         | BH24-06 0              | 82       | 86       |                                  |
| 390-6178-5         | BH24-06 2              | 69 S1-   | 69 S1-   |                                  |
| 390-6178-6         | BH24-06 4              | 107      | 114      |                                  |
| 390-6178-7         | BH24-07 0              | 78       | 82       |                                  |
| 390-6178-8         | BH24-07 2              | 80       | 79       |                                  |
| 390-6178-9         | BH24-07 4              | 97       | 104      |                                  |
| 390-6178-10        | BH24-08 0              | 64 S1-   | 68 S1-   |                                  |
| 390-6178-11        | BH24-08 2              | 101      | 106      |                                  |
| 390-6178-12        | BH24-08 4              | 80       | 82       |                                  |
| _CS 880-73300/2-A  | Lab Control Sample     | 88       | 89       |                                  |
| LCSD 880-73300/3-A | Lab Control Sample Dup | 90       | 93       |                                  |
|                    | Method Blank           | 136 S1+  | 151 S1+  |                                  |

OTPH = o-Terphenyl

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73275/5-A

Analysis Batch: 73718

**Matrix: Solid** 

MD MD

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73275

1

|                     | MB       | MR        |         |       |   |                |                |         |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 02/15/24 15:00 | 02/21/24 12:09 |         |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 02/15/24 15:00 | 02/21/24 12:09 |         |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 02/15/24 15:00 | 02/21/24 12:09 |         |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 02/15/24 15:00 | 02/21/24 12:09 |         |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 02/15/24 15:00 | 02/21/24 12:09 |         |
| Xylenes, Total      | <0.00400 | U         | 0.00400 | mg/Kg |   | 02/15/24 15:00 | 02/21/24 12:09 |         |
|                     |          |           |         |       |   |                |                |         |

MB MB

| Surrogate                   | %Recovery Qua | alifier Limits | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|---------------|----------------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 127           | 70 - 130       | 02/15/24 15:00 | 02/21/24 12:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109           | 70 - 130       | 02/15/24 15:00 | 02/21/24 12:09 | 1       |

Lab Sample ID: MB 880-73285/5-A

Client Sample ID: Method Blank

| Matrix: Solid         |        |           |    |      |   |          | Prep Type: | Total/NA  |
|-----------------------|--------|-----------|----|------|---|----------|------------|-----------|
| Analysis Batch: 73718 |        |           |    |      |   |          | Prep Bate  | :h: 73285 |
|                       | MB     | MB        |    |      |   |          |            |           |
| Analyte               | Result | Qualifier | RL | Unit | D | Prepared | Analyzed   | Dil Fac   |

| Analyte             | Result C   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|------------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 L | J         | 0.00200 | mg/Kg |   | 02/15/24 15:38 | 02/21/24 23:54 | 1       |
| Toluene             | <0.00200 L | J         | 0.00200 | mg/Kg |   | 02/15/24 15:38 | 02/21/24 23:54 | 1       |
| Ethylbenzene        | <0.00200 L | J         | 0.00200 | mg/Kg |   | 02/15/24 15:38 | 02/21/24 23:54 | 1       |
| m-Xylene & p-Xylene | <0.00400 L | J         | 0.00400 | mg/Kg |   | 02/15/24 15:38 | 02/21/24 23:54 | 1       |
| o-Xylene            | <0.00200 L | J         | 0.00200 | mg/Kg |   | 02/15/24 15:38 | 02/21/24 23:54 | 1       |
| Xylenes, Total      | <0.00400 L | J         | 0.00400 | mg/Kg |   | 02/15/24 15:38 | 02/21/24 23:54 | 1       |

мв мв

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 135       | S1+       | 70 - 130 | 02/15/24 15:38 | 02/21/24 23:54 | 1       |
| 1,4-Difluorobenzene (Surr)  | 113       |           | 70 - 130 | 02/15/24 15:38 | 02/21/24 23:54 | 1       |

Lab Sample ID: LCS 880-73285/1-A

**Matrix: Solid** 

Analysis Batch: 73718

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 73285

|                     | Spike | LCS    | LCS       |       |   |      | %Rec     |  |
|---------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte             | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |  |
| Benzene             | 0.100 | 0.1296 |           | mg/Kg |   | 130  | 70 - 130 |  |
| Toluene             | 0.100 | 0.1038 |           | mg/Kg |   | 104  | 70 - 130 |  |
| Ethylbenzene        | 0.100 | 0.1218 |           | mg/Kg |   | 122  | 70 - 130 |  |
| m-Xylene & p-Xylene | 0.200 | 0.2270 |           | mg/Kg |   | 114  | 70 - 130 |  |
| o-Xylene            | 0.100 | 0.1203 |           | mg/Kg |   | 120  | 70 - 130 |  |

LCS LCS

| Surrogate                   | %Recovery Qualifier | Limits   |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 118                 | 70 - 130 |
| 1.4-Difluorobenzene (Surr)  | 107                 | 70 - 130 |

Lab Sample ID: LCSD 880-73285/2-A

**Matrix: Solid** 

**Analysis Batch: 73718** 

| Client Sample II | D: Lab Control | Sample Dup |
|------------------|----------------|------------|
|                  | Danie T        | T-4-1/NIA  |

Prep Type: Total/NA

Prep Batch: 73285

|         | <b>Бріке</b> | LCSD LCSD        |       |   |      | %Rec     |     | RPD   |
|---------|--------------|------------------|-------|---|------|----------|-----|-------|
| Analyte | Added        | Result Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Benzene | 0.100        | 0.1238           | mg/Kg |   | 124  | 70 - 130 | 5   | 35    |

Lab Sample ID: LCSD 880-73285/2-A

#### **QC Sample Results**

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

**Analysis Batch: 73718** 

**Matrix: Solid** 

Client Sample ID: Lab Control Sample Dup

rep Type: Total/NA Prep Batch: 73285

Prep Type: Total/NA

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.1055 105 70 - 130 35 mg/Kg 2 Ethylbenzene 0.100 0.1179 mg/Kg 118 70 - 130 3 35 0.200 m-Xylene & p-Xylene 0.2076 mg/Kg 104 70 - 130 9 35 o-Xylene 0.100 0.1093 mg/Kg 109 70 - 130 10 35

LCSD LCSD

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

| Surrogate                   | %Recovery | Qualifier | Limits   |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 110       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 |

Lab Sample ID: 890-6178-1 MS Client Sample ID: BH24-05 0

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 73718 Prep Batch: 73285

MS MS %Rec Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.00199 0.100 0.1184 mg/Kg 118 70 - 130 Toluene <0.00199 U 0.100 0.09893 99 70 - 130 mg/Kg Ethylbenzene <0.00199 U 0.100 0.1018 70 - 130 mg/Kg 102 0.200 m-Xylene & p-Xylene <0.00398 U 0.1850 92 70 - 130 mg/Kg o-Xylene <0.00199 U 0.100 0.09963 mg/Kg 99 70 - 130

MS MS

| Surrogate                   | %Recovery Qualifier | Limits   |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 109                 | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103                 | 70 - 130 |

Lab Sample ID: 890-6178-1 MSD Client Sample ID: BH24-05 0

Matrix: Solid

Analysis Batch: 73718

Prep Type: Total/NA

Prep Batch: 73285

|                     | Sample   | Sample    | Spike | MSD     | MSD       |       |   |      | %Rec     |     | RPD   |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte             | Result   | Qualifier | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Benzene             | <0.00199 | U         | 0.101 | 0.1153  |           | mg/Kg |   | 115  | 70 - 130 | 3   | 35    |
| Toluene             | <0.00199 | U         | 0.101 | 0.09478 |           | mg/Kg |   | 94   | 70 - 130 | 4   | 35    |
| Ethylbenzene        | <0.00199 | U         | 0.101 | 0.1075  |           | mg/Kg |   | 107  | 70 - 130 | 5   | 35    |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.201 | 0.1990  |           | mg/Kg |   | 99   | 70 - 130 | 7   | 35    |
| o-Xylene            | <0.00199 | U         | 0.101 | 0.1099  |           | mg/Kg |   | 109  | 70 - 130 | 10  | 35    |
|                     |          |           |       |         |           |       |   |      |          |     |       |

MSD MSD

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| Surrogate                   | %Recovery | Qualifier | Limits   |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 120       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 |

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

Lab Sample ID: MB 880-73300/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 73423 Prep Batch: 73300

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Gasoline Range Organics
 <50.0</td>
 U
 50.0
 mg/Kg
 02/15/24 17:26
 02/19/24 19:53
 1

(GRO)-C6-C10

**Eurofins Carlsbad** 

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5

7

9

10

12

Job ID: 890-6178-1

Project/Site: Mis Amigos

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

Lab Sample ID: MB 880-73300/1-A **Matrix: Solid** 

Lab Sample ID: LCS 880-73300/2-A

**Analysis Batch: 73423** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73300

| ı |                                   | IVID   | 11.0      |      |       |   |                |                |         |
|---|-----------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
|   | Analyte                           | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|   | Diesel Range Organics (Over       | <50.0  | U         | 50.0 | mg/Kg |   | 02/15/24 17:26 | 02/19/24 19:53 | 1       |
|   | C10-C28)                          |        |           |      |       |   |                |                |         |
|   | OII Range Organics (Over C28-C36) | <50.0  | U         | 50.0 | mg/Kg |   | 02/15/24 17:26 | 02/19/24 19:53 | 1       |
|   |                                   | МВ     | MD        |      |       |   |                |                |         |

MB MB

MR MR

|   | Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---|----------------|-----------|-----------|----------|----------------|----------------|---------|
|   | 1-Chlorooctane | 136       | S1+       | 70 - 130 | 02/15/24 17:26 | 02/19/24 19:53 | 1       |
| l | o-Terphenyl    | 151       | S1+       | 70 - 130 | 02/15/24 17:26 | 02/19/24 19:53 | 1       |

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 73300

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 955.9 mg/Kg 96 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 851.6 70 - 130 mg/Kg 85 C10-C28)

LCS LCS

ICED ICED

| Surrogate      | %Recovery | Qualifier | Limits   |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 88        |           | 70 - 130 |
| o-Terphenyl    | 89        |           | 70 - 130 |

Lab Sample ID: LCSD 880-73300/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 73423

Analysis Batch: 73423

Prep Type: Total/NA

Prep Batch: 73300

|                             | Spike | LCSD   | LCSD      |       |   |      | %Rec     |     | RPD   |  |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte                     | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |  |
| Gasoline Range Organics     | 1000  | 926.7  |           | mg/Kg |   | 93   | 70 - 130 | 3   | 20    |  |
| (GRO)-C6-C10                |       |        |           |       |   |      |          |     |       |  |
| Diesel Range Organics (Over | 1000  | 858.8  |           | mg/Kg |   | 86   | 70 - 130 | 1   | 20    |  |
| C10-C28)                    |       |        |           |       |   |      |          |     |       |  |

|                | LUSD      | LUSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 90        |           | 70 - 130 |
| o-Terphenyl    | 93        |           | 70 - 130 |

Lab Sample ID: 890-6178-1 MS Client Sample ID: BH24-05 0

Matrix: Solid

**Analysis Batch: 73423** 

Prep Type: Total/NA

Prep Batch: 73300

| •                                       | Sample | Sample    | Spike | MS     | MS        |       |   |      | %Rec     |
|---|--------|-----------|-------|--------|-----------|-------|---|------|----------|
| Analyte                                 | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.6  | U         | 1000  | 1024   |           | mg/Kg |   | 98   | 70 - 130 |
| Diesel Range Organics (Over             | <49.6  | U F1      | 1000  | 630.8  | F1        | mg/Kg |   | 60   | 70 - 130 |

C10-C28)

|                | IVIS      | IVIS      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 73        |           | 70 - 130 |
| o-Terphenyl    | 68        | S1-       | 70 - 130 |

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

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

Lab Sample ID: 890-6178-1 MSD

**Matrix: Solid** Analysis Batch: 73423 Client Sample ID: BH24-05 0 Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Batch: 73300

Sample Sample Spike MSD MSD Result Qualifier Limit Analyte Added Result Qualifier Unit %Rec Limits RPD Gasoline Range Organics <49.6 U 1000 1045 mg/Kg 100 70 - 130 2 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over <49.6 UF1 602.8 F1 57 70 - 130 mg/Kg 5

C10-C28)

MSD MSD

| Surrogate      | %Recovery | Qualifier | Limits   |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 68        | S1-       | 70 - 130 |
| o-Terphenyl    | 64        | S1-       | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73212/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 73435** 

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| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00  | U         | 5.00 | mg/Kg |   |          | 02/17/24 01:33 | 1       |

Lab Sample ID: LCS 880-73212/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 73435** 

|          |      | Spike | LCS    | LCS       |       |   |        | %Rec     |  |
|----------|------|-------|--------|-----------|-------|---|--------|----------|--|
| Analyte  |      | Added | Result | Qualifier | Unit  | D | %Rec   | Limits   |  |
| Chloride | <br> | 250   | 240.8  |           | mg/Kg |   | <br>96 | 90 - 110 |  |

Lab Sample ID: LCSD 880-73212/3-A

**Matrix: Solid** 

**Analysis Batch: 73435** 

|          | Spike | LCSD   | LCSD      |       |   |      | %Rec     |     | RPD   |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte  | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Chloride | 250   | 241 4  |           | ma/Ka |   | 97   | 90 - 110 |     | 20    |

Lab Sample ID: 890-6176-A-9-B MS

**Matrix: Solid** 

**Analysis Batch: 73435** 

|          | Sample | Sample    | Spike | MS     | MS        |       |   |      | %Rec     |  |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte  | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |  |
| Chloride | 110    |           | 250   | 342 1  |           | ma/Ka |   | 93   | 90 - 110 |  |

Lab Sample ID: 890-6176-A-9-C MSD

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**Matrix: Solid** 

Analysis Ratch: 73435

| Alialysis Dalcii. 13433 |        |           |       |        |           |       |   |      |          |     |       |
|-------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
|                         | Sample | Sample    | Spike | MSD    | MSD       |       |   |      | %Rec     |     | RPD   |
| Analyte                 | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Chloride                | 110    |           | 250   | 344.3  |           | mg/Kg |   | 94   | 90 - 110 | 1   | 20    |

Lab Sample ID: MB 880-73213/1-A

Lab Sample ID: LCS 880-73213/2-A

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

Analysis Batch: 73448

**Analysis Batch: 73448** 

**Matrix: Solid** 

**Matrix: Solid** 

Analyte

Chloride

Client Sample ID: Method Blank

**Prep Type: Soluble** 

Dil Fac

02/19/24 15:33

Client Sample ID: Lab Control Sample

**Prep Type: Soluble** 

Analyzed

LCS LCS %Rec

D

Prepared

Unit

mg/Kg

Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 259.6 mg/Kg 104 90 - 110

Spike

Lab Sample ID: LCSD 880-73213/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

RL

5.00

Analysis Batch: 73448

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<5.00 U

Result Qualifier

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 260.1 90 - 110 mg/Kg 104

Lab Sample ID: 890-6178-7 MS Client Sample ID: BH24-07

**Matrix: Solid Prep Type: Soluble Analysis Batch: 73448** 

MS MS Sample Sample Spike %Rec

Analyte Result Qualifier Added Qualifier Unit %Rec Result Limits 332.9 Chloride 85.7 253 98 90 - 110 mg/Kg

Lab Sample ID: 890-6178-7 MSD Client Sample ID: BH24-07

**Prep Type: Soluble Matrix: Solid Analysis Batch: 73448** 

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 253 85.7 335.8 mg/Kg 99 90 - 110 20

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

**GC VOA** 

Prep Batch: 73275

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-73275/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

Prep Batch: 73285

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6178-1         | BH24-05 0              | Total/NA  | Solid  | 5035   |            |
| 890-6178-2         | BH24-05 2              | Total/NA  | Solid  | 5035   |            |
| 890-6178-3         | BH24-05 4              | Total/NA  | Solid  | 5035   |            |
| 890-6178-4         | BH24-06 0              | Total/NA  | Solid  | 5035   |            |
| 890-6178-5         | BH24-06 2              | Total/NA  | Solid  | 5035   |            |
| 890-6178-6         | BH24-06 4              | Total/NA  | Solid  | 5035   |            |
| 890-6178-7         | BH24-07 0              | Total/NA  | Solid  | 5035   |            |
| 890-6178-8         | BH24-07 2              | Total/NA  | Solid  | 5035   |            |
| 890-6178-9         | BH24-07 4              | Total/NA  | Solid  | 5035   |            |
| 890-6178-10        | BH24-08 0              | Total/NA  | Solid  | 5035   |            |
| 890-6178-11        | BH24-08 2              | Total/NA  | Solid  | 5035   |            |
| 890-6178-12        | BH24-08 4              | Total/NA  | Solid  | 5035   |            |
| MB 880-73285/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-73285/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-73285/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-6178-1 MS      | BH24-05 0              | Total/NA  | Solid  | 5035   |            |
| 890-6178-1 MSD     | BH24-05 0              | Total/NA  | Solid  | 5035   |            |

Analysis Batch: 73718

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6178-1         | BH24-05 0              | Total/NA  | Solid  | 8021B  | 73285      |
| 890-6178-2         | BH24-05 2              | Total/NA  | Solid  | 8021B  | 73285      |
| 890-6178-3         | BH24-05 4              | Total/NA  | Solid  | 8021B  | 73285      |
| 890-6178-4         | BH24-06 0              | Total/NA  | Solid  | 8021B  | 73285      |
| 890-6178-5         | BH24-06 2              | Total/NA  | Solid  | 8021B  | 73285      |
| 890-6178-6         | BH24-06 4              | Total/NA  | Solid  | 8021B  | 73285      |
| 890-6178-7         | BH24-07 0              | Total/NA  | Solid  | 8021B  | 73285      |
| 890-6178-8         | BH24-07 2              | Total/NA  | Solid  | 8021B  | 73285      |
| 890-6178-9         | BH24-07 4              | Total/NA  | Solid  | 8021B  | 73285      |
| 890-6178-10        | BH24-08 0              | Total/NA  | Solid  | 8021B  | 73285      |
| 890-6178-11        | BH24-08 2              | Total/NA  | Solid  | 8021B  | 73285      |
| 890-6178-12        | BH24-08 4              | Total/NA  | Solid  | 8021B  | 73285      |
| MB 880-73275/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 73275      |
| MB 880-73285/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 73285      |
| LCS 880-73285/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 73285      |
| LCSD 880-73285/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 73285      |
| 890-6178-1 MS      | BH24-05 0              | Total/NA  | Solid  | 8021B  | 73285      |
| 890-6178-1 MSD     | BH24-05 0              | Total/NA  | Solid  | 8021B  | 73285      |

**Analysis Batch: 73850** 

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| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-6178-1    | BH24-05 0        | Total/NA  | Solid  | Total BTEX |            |
| 890-6178-2    | BH24-05 2        | Total/NA  | Solid  | Total BTEX |            |
| 890-6178-3    | BH24-05 4        | Total/NA  | Solid  | Total BTEX |            |
| 890-6178-4    | BH24-06 0        | Total/NA  | Solid  | Total BTEX |            |
| 890-6178-5    | BH24-06 2        | Total/NA  | Solid  | Total BTEX |            |
| 890-6178-6    | BH24-06 4        | Total/NA  | Solid  | Total BTEX |            |

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Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

# **GC VOA (Continued)**

#### **Analysis Batch: 73850 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-6178-7    | BH24-07 0        | Total/NA  | Solid  | Total BTEX |            |
| 890-6178-8    | BH24-07 2        | Total/NA  | Solid  | Total BTEX |            |
| 890-6178-9    | BH24-07 4        | Total/NA  | Solid  | Total BTEX |            |
| 890-6178-10   | BH24-08 0        | Total/NA  | Solid  | Total BTEX |            |
| 890-6178-11   | BH24-08 2        | Total/NA  | Solid  | Total BTEX |            |
| 890-6178-12   | BH24-08 4        | Total/NA  | Solid  | Total BTEX |            |

#### **GC Semi VOA**

#### Prep Batch: 73300

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batcl |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-6178-1         | BH24-05 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-2         | BH24-05 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-3         | BH24-05 4              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-4         | BH24-06 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-5         | BH24-06 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-6         | BH24-06 4              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-7         | BH24-07 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-8         | BH24-07 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-9         | BH24-07 4              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-10        | BH24-08 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-11        | BH24-08 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-12        | BH24-08 4              | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-73300/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-73300/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-73300/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-1 MS      | BH24-05 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6178-1 MSD     | BH24-05 0              | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 73423

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-6178-1         | BH24-05 0              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-2         | BH24-05 2              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-3         | BH24-05 4              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-4         | BH24-06 0              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-5         | BH24-06 2              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-6         | BH24-06 4              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-7         | BH24-07 0              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-8         | BH24-07 2              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-9         | BH24-07 4              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-10        | BH24-08 0              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-11        | BH24-08 2              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-12        | BH24-08 4              | Total/NA  | Solid  | 8015B NM | 73300      |
| MB 880-73300/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 73300      |
| LCS 880-73300/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 73300      |
| LCSD 880-73300/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-1 MS      | BH24-05 0              | Total/NA  | Solid  | 8015B NM | 73300      |
| 890-6178-1 MSD     | BH24-05 0              | Total/NA  | Solid  | 8015B NM | 73300      |

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Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

#### GC Semi VOA

#### Analysis Batch: 73645

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-6178-1    | BH24-05 0        | Total/NA  | Solid  | 8015 NM |            |
| 890-6178-2    | BH24-05 2        | Total/NA  | Solid  | 8015 NM |            |
| 890-6178-3    | BH24-05 4        | Total/NA  | Solid  | 8015 NM |            |
| 890-6178-4    | BH24-06 0        | Total/NA  | Solid  | 8015 NM |            |
| 890-6178-5    | BH24-06 2        | Total/NA  | Solid  | 8015 NM |            |
| 890-6178-6    | BH24-06 4        | Total/NA  | Solid  | 8015 NM |            |
| 890-6178-7    | BH24-07 0        | Total/NA  | Solid  | 8015 NM |            |
| 890-6178-8    | BH24-07 2        | Total/NA  | Solid  | 8015 NM |            |
| 890-6178-9    | BH24-07 4        | Total/NA  | Solid  | 8015 NM |            |
| 890-6178-10   | BH24-08 0        | Total/NA  | Solid  | 8015 NM |            |
| 890-6178-11   | BH24-08 2        | Total/NA  | Solid  | 8015 NM |            |
| 890-6178-12   | BH24-08 4        | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

#### Leach Batch: 73212

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-6178-1         | BH24-05 0              | Soluble   | Solid  | DI Leach |            |
| 890-6178-2         | BH24-05 2              | Soluble   | Solid  | DI Leach |            |
| 890-6178-3         | BH24-05 4              | Soluble   | Solid  | DI Leach |            |
| 890-6178-4         | BH24-06 0              | Soluble   | Solid  | DI Leach |            |
| 890-6178-5         | BH24-06 2              | Soluble   | Solid  | DI Leach |            |
| 890-6178-6         | BH24-06 4              | Soluble   | Solid  | DI Leach |            |
| MB 880-73212/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-73212/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-73212/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-6176-A-9-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-6176-A-9-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

#### Leach Batch: 73213

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batcl |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-6178-7         | BH24-07 0              | Soluble   | Solid  | DI Leach | _          |
| 890-6178-8         | BH24-07 2              | Soluble   | Solid  | DI Leach |            |
| 890-6178-9         | BH24-07 4              | Soluble   | Solid  | DI Leach |            |
| 890-6178-10        | BH24-08 0              | Soluble   | Solid  | DI Leach |            |
| 890-6178-11        | BH24-08 2              | Soluble   | Solid  | DI Leach |            |
| 890-6178-12        | BH24-08 4              | Soluble   | Solid  | DI Leach |            |
| MB 880-73213/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-73213/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-73213/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-6178-7 MS      | BH24-07 0              | Soluble   | Solid  | DI Leach |            |
| 890-6178-7 MSD     | BH24-07 0              | Soluble   | Solid  | DI Leach |            |

#### Analysis Batch: 73435

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-6178-1    | BH24-05 0        | Soluble   | Solid  | 300.0  | 73212      |
| 890-6178-2    | BH24-05 2        | Soluble   | Solid  | 300.0  | 73212      |
| 890-6178-3    | BH24-05 4        | Soluble   | Solid  | 300.0  | 73212      |
| 890-6178-4    | BH24-06 0        | Soluble   | Solid  | 300.0  | 73212      |
| 890-6178-5    | BH24-06 2        | Soluble   | Solid  | 300.0  | 73212      |
| 890-6178-6    | BH24-06 4        | Soluble   | Solid  | 300.0  | 73212      |

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Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

## **HPLC/IC** (Continued)

#### **Analysis Batch: 73435 (Continued)**

| Lab Sample ID MB 880-73212/1-A          | Client Sample ID  Method Blank             | Prep Type Soluble | Matrix Solid | Method 300.0 | Prep Batch 73212 |
|---|--|-------------------|--------------|--------------|------------------|
| LCS 880-73212/1-A                       | Lab Control Sample                         | Soluble           | Solid        | 300.0        | 73212            |
| LCS 660-73212/2-A<br>LCSD 880-73212/3-A | Lab Control Sample  Lab Control Sample Dup | Soluble           | Solid        | 300.0        | 73212            |
| 890-6176-A-9-B MS                       | Matrix Spike                               | Soluble           | Solid        | 300.0        | 73212            |
|   |  |                   |              |              |                  |
| 890-6176-A-9-C MSD                      | Matrix Spike Duplicate                     | Soluble           | Solid        | 300.0        | 73212            |

#### Analysis Batch: 73448

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6178-7         | BH24-07 0              | Soluble   | Solid  | 300.0  | 73213      |
| 890-6178-8         | BH24-07 2              | Soluble   | Solid  | 300.0  | 73213      |
| 890-6178-9         | BH24-07 4              | Soluble   | Solid  | 300.0  | 73213      |
| 890-6178-10        | BH24-08 0              | Soluble   | Solid  | 300.0  | 73213      |
| 890-6178-11        | BH24-08 2              | Soluble   | Solid  | 300.0  | 73213      |
| 890-6178-12        | BH24-08 4              | Soluble   | Solid  | 300.0  | 73213      |
| MB 880-73213/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 73213      |
| LCS 880-73213/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 73213      |
| LCSD 880-73213/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 73213      |
| 890-6178-7 MS      | BH24-07 0              | Soluble   | Solid  | 300.0  | 73213      |
| 890-6178-7 MSD     | BH24-07 0              | Soluble   | Solid  | 300.0  | 73213      |

Project/Site: Mis Amigos

Client: Vertex

Client Sample ID: BH24-05 0

Lab Sample ID: 890-6178-1

**Matrix: Solid** 

Date Collected: 02/13/24 10:00 Date Received: 02/14/24 08:13

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.03 g  | 5 mL   | 73285  | 02/15/24 15:38 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73718  | 02/22/24 00:23 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73850  | 02/22/24 00:23 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73645  | 02/19/24 21:01 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.09 g | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/19/24 21:01 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.02 g  | 50 mL  | 73212  | 02/15/24 08:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73435  | 02/17/24 03:29 | CH      | EET MID |

**Client Sample ID: BH24-05** 2

Date Collected: 02/13/24 10:10

Date Received: 02/14/24 08:13

Lab Sample ID: 890-6178-2

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 73285 Total/NA 5.05 g 5 mL 02/15/24 15:38 MNR EET MID Total/NA 8021B 5 mL 02/22/24 00:43 **EET MID** Analysis 1 5 mL 73718 MNR Total/NA Total BTEX 73850 02/22/24 00:43 Analysis 1 SM **EET MID** Total/NA Analysis 8015 NM 73645 02/19/24 22:09 SM **EET MID** Total/NA 9.90 g 73300 02/15/24 17:26 EET MID Prep 8015NM Prep 10 mL TKC Total/NA Analysis 8015B NM 1 uL 1 uL 73423 02/19/24 22:09 SM **EET MID** Soluble 73212 02/15/24 08:44 Leach DI Leach 4.99 g 50 mL SA EET MID Soluble Analysis 300.0 73435 02/17/24 03:34 СН **EET MID** 

Client Sample ID: BH24-05 4

Date Collected: 02/13/24 10:20

Date Received: 02/14/24 08:13

Lab Sample ID: 890-6178-3

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.95 g  | 5 mL   | 73285  | 02/15/24 15:38 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73718  | 02/22/24 01:04 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73850  | 02/22/24 01:04 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73645  | 02/19/24 22:31 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.03 g | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/19/24 22:31 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.98 g  | 50 mL  | 73212  | 02/15/24 08:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73435  | 02/17/24 03:39 | CH      | EET MID |

Client Sample ID: BH24-06 0

Date Collected: 02/13/24 10:30

Date Received: 02/14/24 08:13

Lab Sample ID: 890-6178-4

Matrix: Solid

|           | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035       |     |        | 4.97 g  | 5 mL   | 73285  | 02/15/24 15:38 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 73718  | 02/22/24 01:25 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 73850  | 02/22/24 01:25 | SM      | EET MID |

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

Client Sample ID: BH24-06

Date Collected: 02/13/24 10:30 Date Received: 02/14/24 08:13 Lab Sample ID: 890-6178-4

Matrix: Solid

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73645  | 02/19/24 22:54 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.06 g | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/19/24 22:54 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.01 g  | 50 mL  | 73212  | 02/15/24 08:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73435  | 02/17/24 03:43 | CH      | EET MID |

Client Sample ID: BH24-06 Lab Sample ID: 890-6178-5

Date Received: 02/14/24 08:13

Date Collected: 02/13/24 10:40

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.96 g  | 5 mL   | 73285  | 02/15/24 15:38 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73718  | 02/22/24 01:45 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73850  | 02/22/24 01:45 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73645  | 02/19/24 23:16 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.01 g | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/19/24 23:16 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.02 g  | 50 mL  | 73212  | 02/15/24 08:44 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73435  | 02/17/24 03:48 | CH      | EET MID |

Client Sample ID: BH24-06 Lab Sample ID: 890-6178-6 **Matrix: Solid** 

Date Collected: 02/13/24 10:50 Date Received: 02/14/24 08:13

| Prep Type | Batch<br>Type | Batch<br>Method |     | Dil<br>Factor | Initial<br>Amount | Final<br>Amount | Batch<br>Number | Prepared<br>or Analyzed | Analyst | Lab     |
|-----------|---------------|-----------------|-----|---------------|-------------------|-----------------|-----------------|-------------------------|---------|---------|
|           |               |                 | Run |               |                   |                 |                 |                         |         |         |
| Total/NA  | Prep          | 5035            |     |               | 5.04 g            | 5 mL            | 73285           | 02/15/24 15:38          | MNR     | EET MID |
| Total/NA  | Analysis      | 8021B           |     | 1             | 5 mL              | 5 mL            | 73718           | 02/22/24 02:06          | MNR     | EET MID |
| Total/NA  | Analysis      | Total BTEX      |     | 1             |                   |                 | 73850           | 02/22/24 02:06          | SM      | EET MID |
| Total/NA  | Analysis      | 8015 NM         |     | 1             |                   |                 | 73645           | 02/19/24 23:39          | SM      | EET MID |
| Total/NA  | Prep          | 8015NM Prep     |     |               | 9.94 g            | 10 mL           | 73300           | 02/15/24 17:26          | TKC     | EET MID |
| Total/NA  | Analysis      | 8015B NM        |     | 1             | 1 uL              | 1 uL            | 73423           | 02/19/24 23:39          | SM      | EET MID |
| Soluble   | Leach         | DI Leach        |     |               | 4.96 g            | 50 mL           | 73212           | 02/15/24 08:44          | SA      | EET MID |
| Soluble   | Analysis      | 300.0           |     | 1             |                   |                 | 73435           | 02/17/24 03:52          | CH      | EET MID |

Client Sample ID: BH24-07 Lab Sample ID: 890-6178-7

Date Collected: 02/13/24 11:00 Date Received: 02/14/24 08:13

|                      | Batch            | Batch                   |     | Dil    | Initial        | Final         | Batch          | Prepared                         |           |                    |
|----------------------|------------------|-------------------------|-----|--------|----------------|---------------|----------------|----------------------------------|-----------|--------------------|
| Prep Type            | Type             | Method                  | Run | Factor | Amount         | Amount        | Number         | or Analyzed                      | Analyst   | Lab                |
| Total/NA             | Prep             | 5035                    |     |        | 5.01 g         | 5 mL          | 73285          | 02/15/24 15:38                   | MNR       | EET MID            |
| Total/NA             | Analysis         | 8021B                   |     | 1      | 5 mL           | 5 mL          | 73718          | 02/22/24 02:26                   | MNR       | EET MID            |
| Total/NA             | Analysis         | Total BTEX              |     | 1      |                |               | 73850          | 02/22/24 02:26                   | SM        | EET MID            |
| Total/NA             | Analysis         | 8015 NM                 |     | 1      |                |               | 73645          | 02/20/24 00:01                   | SM        | EET MID            |
| Total/NA<br>Total/NA | Prep<br>Analysis | 8015NM Prep<br>8015B NM |     | 1      | 9.98 g<br>1 uL | 10 mL<br>1 uL | 73300<br>73423 | 02/15/24 17:26<br>02/20/24 00:01 | TKC<br>SM | EET MID<br>EET MID |

**Eurofins Carlsbad** 

**Matrix: Solid** 

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

Client Sample ID: BH24-07

Lab Sample ID: 890-6178-7 Date Collected: 02/13/24 11:00 Matrix: Solid

Date Received: 02/14/24 08:13

|           | Batch    | Batch    |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Soluble   | Leach    | DI Leach |     |        | 4.95 g  | 50 mL  | 73213  | 02/15/24 08:46 | SA      | EET MID |
| Soluble   | Analysis | 300.0    |     | 1      |         |        | 73448  | 02/19/24 15:54 | CH      | EET MID |

Client Sample ID: BH24-07 Lab Sample ID: 890-6178-8

Date Collected: 02/13/24 11:10 **Matrix: Solid** Date Received: 02/14/24 08:13

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.02 g  | 5 mL   | 73285  | 02/15/24 15:38 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73718  | 02/22/24 02:47 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73850  | 02/22/24 02:47 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73645  | 02/20/24 00:23 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.92 g  | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/20/24 00:23 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.95 g  | 50 mL  | 73213  | 02/15/24 08:46 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73448  | 02/19/24 16:14 | CH      | EET MID |

Client Sample ID: BH24-07

Date Collected: 02/13/24 11:20

Date Received: 02/14/24 08:13

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.05 g  | 5 mL   | 73285  | 02/15/24 15:38 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73718  | 02/22/24 03:07 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73850  | 02/22/24 03:07 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73645  | 02/20/24 00:46 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.90 g  | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/20/24 00:46 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.03 g  | 50 mL  | 73213  | 02/15/24 08:46 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73448  | 02/19/24 16:21 | CH      | EET MID |

Client Sample ID: BH24-08

Date Collected: 02/13/24 11:30

Soluble

| Date Received: | : 02/14/24 08:1 | 3           |     |        |         |        |        |                |         |         |
|----------------|-----------------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| _              | Batch           | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
| Prep Type      | Type            | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA       | Prep            | 5035        |     |        | 4.96 g  | 5 mL   | 73285  | 02/15/24 15:38 | MNR     | EET MID |
| Total/NA       | Analysis        | 8021B       |     | 1      | 5 mL    | 5 mL   | 73718  | 02/22/24 03:28 | MNR     | EET MID |
| Total/NA       | Analysis        | Total BTEX  |     | 1      |         |        | 73850  | 02/22/24 03:28 | SM      | EET MID |
| Total/NA       | Analysis        | 8015 NM     |     | 1      |         |        | 73645  | 02/20/24 01:09 | SM      | EET MID |
| Total/NA       | Prep            | 8015NM Prep |     |        | 10.05 g | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA       | Analysis        | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/20/24 01:09 | SM      | EET MID |
| Soluble        | Leach           | DI Leach    |     |        | 5.04 g  | 50 mL  | 73213  | 02/15/24 08:46 | SA      | EET MID |

**Eurofins Carlsbad** 

**EET MID** 

73448

02/19/24 16:28

Lab Sample ID: 890-6178-9

Lab Sample ID: 890-6178-10

**Matrix: Solid** 

**Matrix: Solid** 

Analysis

300.0

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

Client Sample ID: BH24-08 2

Lab Sample ID: 890-6178-11

Date Collected: 02/13/24 11:40 Matrix: Solid

Date Received: 02/14/24 08:13

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.99 g  | 5 mL   | 73285  | 02/15/24 15:38 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73718  | 02/22/24 05:19 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73850  | 02/22/24 05:19 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73645  | 02/20/24 01:53 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.03 g | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/20/24 01:53 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.01 g  | 50 mL  | 73213  | 02/15/24 08:46 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73448  | 02/19/24 16:35 | CH      | EET MID |

Client Sample ID: BH24-08 4 Lab Sample ID: 890-6178-12

Date Collected: 02/13/24 11:50 Matrix: Solid

Date Received: 02/14/24 08:13

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.02 g  | 5 mL   | 73285  | 02/15/24 15:38 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 73718  | 02/22/24 05:39 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 73850  | 02/22/24 05:39 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 73645  | 02/20/24 02:16 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.02 g | 10 mL  | 73300  | 02/15/24 17:26 | TKC     | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 73423  | 02/20/24 02:16 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.96 g  | 50 mL  | 73213  | 02/15/24 08:46 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 73448  | 02/19/24 16:55 | CH      | EET MID |

**Laboratory References:** 

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

# **Accreditation/Certification Summary**

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

### **Laboratory: Eurofins Midland**

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

| Authority       | Progra   | am                             | Identification Number                     | Expiration Date        |
|-----------------|--|--------------------------------|---|------------------------|
| Texas           | NELAI  | )                              | T104704400-23-26                          | 06-30-24               |
| ,               | are included in this report, but<br>bes not offer certification. | t the laboratory is not certif | fied by the governing authority. This lis | t may include analytes |
| Analysis Method | Prep Method  | Matrix                         | Analyte                                   |                        |
| 8015 NM         |  | Solid                          | Total TPH                                 |                        |
| Total BTEX      |  | Solid                          | Total BTEX                                |                        |

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## **Method Summary**

Client: Vertex Job ID: 890-6178-1

Project/Site: Mis Amigos

| 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

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# Sample Summary

Client: Vertex Job II

Project/Site: Mis Amigos

Job ID: 890-6178-1

| Lab Sample ID | Client Sample I | D | Matrix | Collected      | Received       |
|---------------|-----------------|---|--------|----------------|----------------|
| 890-6178-1    | BH24-05 0       |   | Solid  | 02/13/24 10:00 | 02/14/24 08:13 |
| 890-6178-2    | BH24-05 2       |   | Solid  | 02/13/24 10:10 | 02/14/24 08:13 |
| 890-6178-3    | BH24-05 4       |   | Solid  | 02/13/24 10:20 | 02/14/24 08:13 |
| 890-6178-4    | BH24-06 0       |   | Solid  | 02/13/24 10:30 | 02/14/24 08:13 |
| 890-6178-5    | BH24-06 2       |   | Solid  | 02/13/24 10:40 | 02/14/24 08:13 |
| 890-6178-6    | BH24-06 4       |   | Solid  | 02/13/24 10:50 | 02/14/24 08:13 |
| 890-6178-7    | BH24-07 0       |   | Solid  | 02/13/24 11:00 | 02/14/24 08:13 |
| 890-6178-8    | BH24-07 2       |   | Solid  | 02/13/24 11:10 | 02/14/24 08:13 |
| 890-6178-9    | BH24-07 4       |   | Solid  | 02/13/24 11:20 | 02/14/24 08:13 |
| 890-6178-10   | BH24-08 0       |   | Solid  | 02/13/24 11:30 | 02/14/24 08:13 |
| 890-6178-11   | BH24-08 2       |   | Solid  | 02/13/24 11:40 | 02/14/24 08:13 |
| 890-6178-12   | BH24-08 4       |   | Solid  | 02/13/24 11:50 | 02/14/24 08:13 |

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| Received by OCD:   | V18/2024 3:38:55 PM  |  | Page 114 0  |
|--|--|--|---|
| 23293  | Order Comments    Brownfields   RRC   Superfund  | H 3PO 4: HP NaHSO 4: NABIS Na 25 20 3: NaSO 3 Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC Sample Comments   | 7 47 1  Date/Time  Date/Time  |
| NAPP. 232935<br>Work Order No: 105562100/  | Work Order Comments  UST/PST   | H <sub>3</sub> PO 4: HP NaHSO 4: NABIS Na 25 20 3: NaSO Zn Acetate+NaC NaOH+Ascorbic Sample C  | K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471  Ed.  Received by: (Signature)  Da   |
| Work   | Work Orde Program: UST/PST   PRP   State of Project: Reporting: Level      Level      Deliverables: EDD   A  | , Apol   |   |
| 48   | Prog State S | 890-6178 Chain of Custody  | Al 5b As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K RA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions in expenses incurred by the client if such losses are due to dircumstances beyond the control ted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated Date/Time    Part   Part |
| 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 | TO STATE OF THE ST | [8] (Ob) H02   | Cd Ca Cr Co Cu Fe Pb M Cd Cr Co Cu Pb Mn Mo Ni Ese and subcontractors. It assigns standard te client if such losses are due to circumstances b oot analyzed. These terms will be enforced unly Relinquished by: (Signat  4  |
| Chain of Custody  Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 fidland, TX (432) 704-5440, San Antonio, TX (210) 509-33 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-319     |  | В X Э 1 В 1 В 1 В 1 В 1 В 1 В 1 В 1 В 1 В 1  | Al Sb As Ba Be B RA Sb As Ba Be C to Eurofins Xenco, its affillate tred to Eurofins Xenco, but no Date/Time   |
| Houst<br>Midland<br>EL Pass<br>Hobbs   | Bill to: Compa Address (City, St. II: II: III Around In  | ite: No  | A 13PPM Texas 11 Al S TCLP / SPLP 6010 : 8RCRA urchase order from client company to Ei e any responsibility for any losses or exp asige of \$5 for each sample submitted to ignature)   |
| Environment Testing<br>Xenco   |  | Thermometer ID: Correction Factor: Temperature Reading: Corrected Temperature  Date Time Sampled Sampled  00.13.24 (0.20  | BRCRA 13PPM analyzed TCLP / SPLP amples constitutes a valid purchase order fro samples and shall not assume any responsible liked to each project and a charge of \$5 for each Received by: (Signature)   |
|  |  | Temp Blank:  (ya) No Yes No (N/A)  Yes No (N/A)  24  41  01  24  41  41  41  41  41  | 200.8 / 6020: Ind Metal(s) to be ana lent and relinquishment of samp be liable only for the cost of samp charge of 585.00 will be applied signature)  |
| الله علي الله الله الله الله الله الله الله ال   | t Manager:  SS:  tate ZIP:  t Name:  t Location:  er's Name:  Kunmber:  t Location:  Kunmber:  t Location:  t Name:  t N | SAMPLE RECEIPT Samples Received Intact: Cooler Custody Seals: Sample Custody Seals: Sample Custody Seals:  Sample Lustody Seals:  Sample Lustody Seals:  Sample Lustody Seals:  Sample Lustody Seals:  Sample July OS  SH2H | 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 Se Ag Tl U 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 Tl U Netter: 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. Aminimum 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 negor Relinquished by: (Signature)  Received by: (Signature)  Received by: (Signature)  Received by: (Signature)  A 4  A 4  A 6  A 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7   |
| 02.13.   | Project N Company Company Project L  | Page 32 of 35  | 2/22/202  |

| • | eurofins En  | Environment Testing<br>Xenco  | Houston, TX Midland, TX (4 EL Paso, TX (9 Hobbs, NM (1)   | 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  | X (214) 902-0300<br>3, TX (210) 509-3334<br>X (806) 794-1296<br>MM (575) 988-3199  |   | Work Ord  | er No: 105  | Work Order No: 1055621001   |  |
|---|--|---|---|--|--|---|---|---|---|--|
|   | Project Manager: Company Name: Modfess: City, State ZIP: Phone:  | arton<br>KTO<br>Email:  | Bill to: (if different) Company Name: Address: City, State ZIP:   | growth or the  | anem   | Program: US<br>State of Project:<br>Reporting: Lev<br>Deliverables:                                   | Work Order Co Program: UST/PST   PRP   Brov State of Project: Reporting: Level      P |   | Omments  Omnifields RRC Superfund PST/UST TRRP Level IV   |  |
|   | Project Name: Nib Am<br>Project Number: 236.05 219<br>Project Location: Win Ami<br>Sampler's Name: Wingstan  | Contact Contact   | Turn Around Pres.  Code Date:  TAT starts the day received by the lab, if received by 4:30pm  | (05)   | ANALYSIS REQUEST   | REQUEST   |   | Press<br>None: NO<br>Cool: Cool<br>HCL: HC<br>H2: H2  | Preservative Codes :: NO DI Water: H <sub>2</sub> O Cool MeOH: Me HC HNO 3: HN  |  |
|   | SAMPLE RECEIPT Temp Blanks Samples Received Intact: Yes Mo Cooler Custody Seals: Yes No N/A Total Containers: Yes No N/A Total Conta | N/A Corrected Time N/A Temperature Reading: Corrected Temperature: Date Time Matrix Sampled Sampled Sampled Sampled COVERT Time Date Time NATIVE TIME | Depth Grab/ No Asiameter (Symposius Cont. | 08 HOL -5  |  |   |   | H <sub>3</sub> PO 4: HP NaHSO 4: NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO Zn Acetate+NaC NaOH+Ascorbic Sample C | H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>5</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC Sample Comments |  |
|   | Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N 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 Service. 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 coal of samples and sulfnort assume any responsibility for any losses or expenses incurred by the creat if such losses are due to creamfance the sample at the commander of the com | 7/6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K od(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 Tl U 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 Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurrent by the crient fructions are due to creamstance beyond the control Aminimum 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.  | A 13PPM Texas 11 AI Sb TCLP / SPLP 6010 : 8RCRA Strictuse order from client company to Euro e any responsibility for any losses or expen-   | Al Sb As Ba Be B Cd C RA Sb As Ba Be Cd Cr to Eurofins Xenco, Its affiliates and sut rexpenses incured by the creent if succeed to the country of the countr | Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K d Cr Co Cu Pb Mn Mo Ni Se Ag Tl U sand subcontractors, it assigns standard terms and conditions ent if such tosses are due to organisances beyond the romford tanalyzed. These terms will be enforced unless previously negotiated. | Mg Mn Mo Ni Ni Se Ag TI U rd terms and conditions rest begoind the control dunless previously negotia | K Se Ag SiO <sub>2</sub> Na Sr<br>Hg: 1631 / 245.1                                    | 7470  |   |  |
|   | Relinquished by: (Signature)   | Received by: (Signature)  |   | \$1.12 2/10°   | Relinquished by: (Signature) 4   | gnature)  | Received by: (signature)  |   | Date/ IIme  |  |

### **Login Sample Receipt Checklist**

Client: Vertex Job Number: 890-6178-1

SDG Number:

Login Number: 6178 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    |                                     |

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### **Login Sample Receipt Checklist**

Client: Vertex Job Number: 890-6178-1

SDG Number:

Login Number: 6178 List Source: Eurofins Midland List Number: 2

List Creation: 02/15/24 11:41 AM

Creator: Wheeler, Jazmine

| Question   | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| 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.  | 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               | N/A    |         |

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<6mm (1/4").

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

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

Generated 3/8/2024 12:59:43 PM

# **JOB DESCRIPTION**

Mis Amigos tank battery 23E-05219

# **JOB NUMBER**

890-6296-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

# **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 3/8/2024 12:59:43 PM

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

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Client: Vertex
Project/Site: Mis Amigos tank battery

Laboratory Job ID: 890-6296-1 SDG: 23E-05219

# **Table of Contents**

| Cover Page             | 1  |
|------------------------|----|
| Table of Contents      | 3  |
| Definitions/Glossary   | 4  |
| Case Narrative         | 5  |
| Client Sample Results  | 7  |
| Surrogate Summary      | 23 |
| QC Sample Results      | 25 |
| QC Association Summary | 34 |
| Lab Chronicle          | 40 |
| Certification Summary  | 47 |
| Method Summary         | 48 |
| Sample Summary         | 49 |
| Chain of Custody       | 50 |
| Receipt Checklists     | 53 |

3

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6

8

10

11

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### **Definitions/Glossary**

Client: Vertex Job ID: 890-6296-1 Project/Site: Mis Amigos tank battery

SDG: 23E-05219

#### **Qualifiers**

**GC VOA** Qualifier

LCS and/or LCSD is outside acceptance limits, high biased.

\*1

LCS/LCSD RPD exceeds control limits. F1 MS and/or MSD recovery exceeds control limits.

**Qualifier Description** 

U Indicates the analyte was analyzed for but not detected.

#### **GC Semi VOA**

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

#### **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** 

Detection Limit (DoD/DOE) DL

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)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI 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

Practical Quantitation Limit **PQL** 

**PRES** Presumptive **Quality Control** QC

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 Job ID: 890-6296-1

Project: Mis Amigos tank battery

Job ID: 890-6296-1 Eurofins Carlsbad

#### Job Narrative 890-6296-1

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 3/1/2024 9:16 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 0.2°C.

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: BH24-09 0 (890-6296-1), BH24-09 2 (890-6296-2), BH24-11 0 (890-6296-3), BH24-11 2 (890-6296-4), BH24-12 0 (890-6296-5), BH24-12 4 (890-6296-6), BH24-12 8 (890-6296-7), BH24-13 0 (890-6296-8), BH24-13 2 (890-6296-9), BH24-14 0 (890-6296-10), BH24-14 2 (890-6296-11), BH24-15 0 (890-6296-12), BH24-15 2 (890-6296-13), BH24-17 0 (890-6296-14), BH24-17 2 (890-6296-15), BH24-18 0 (890-6296-16), BH24-18 2 (890-6296-17), BH24-19 0 (890-6296-18), BH24-19 2 (890-6296-19), BH24-20 0 (890-6296-20) and BH24-20 2 (890-6296-21).

#### **GC VOA**

Method 8021B: <The continuing calibration verification (CCV) associated with batch 880-74575 recovered under the lower control limit for 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.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-74750 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-74750/2), (CCV 880-74750/20) and (CCV 880-74750/64).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-74689 and analytical batch 880-74750 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 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-74676 and analytical batch 880-74575 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 8021B: The continuing calibration verification (CCV) associated with batch 880-74750 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-74750/33) and (CCV 880-74750/51).

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 880-74822 and analytical batch 880-74778 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: BH24-11 2 (890-6296-4), BH24-12 0 (890-6296-5), BH24-12 8 (890-6296-7), BH24-13 0 (890-6296-8) and (890-6289-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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### **Case Narrative**

Client: Vertex Job ID: 890-6296-1

Project: Mis Amigos tank battery

### Job ID: 890-6296-1 (Continued)

### **Eurofins Carlsbad**

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-74822/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-74838 and analytical batch 880-74861 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: BH24-14 0 (890-6296-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-74834 and analytical batch 880-74863 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: BH24-14 2 (890-6296-11), BH24-15 0 (890-6296-12), BH24-15 2 (890-6296-13), BH24-17 0 (890-6296-14), BH24-17 2 (890-6296-15), BH24-18 0 (890-6296-16), BH24-18 2 (890-6296-17), BH24-19 0 (890-6296-18), BH24-20 0 (890-6296-20), (890-6296-A-11-D MS) and (890-6296-A-11-E MSD). 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

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74627 and analytical batch 880-74903 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: Vertex Project/Site: Mis Amigos tank battery SDG: 23E-05219

Client Sample ID: BH24-09 0 Lab Sample ID: 890-6296-1

Date Collected: 02/27/24 11:40 Matrix: Solid Date Received: 03/01/24 09:16

| Analyte   | Result                                      | Qualifier   | RL  | Unit                          | D        | Prepared   | Analyzed   | Dil Fac                  |
|---|---|---|---|-------------------------------|----------|--|--|--------------------------|
| Benzene   | <0.00199                                    | U F1 *1   | 0.00199   | mg/Kg                         |          | 03/04/24 14:32   | 03/05/24 12:33   | 1                        |
| Toluene   | < 0.00199                                   | U F1 *1   | 0.00199   | mg/Kg                         |          | 03/04/24 14:32   | 03/05/24 12:33   | 1                        |
| Ethylbenzene  | < 0.00199                                   | U F1  | 0.00199   | mg/Kg                         |          | 03/04/24 14:32   | 03/05/24 12:33   | 1                        |
| m-Xylene & p-Xylene   | <0.00398                                    | U F1  | 0.00398   | mg/Kg                         |          | 03/04/24 14:32   | 03/05/24 12:33   | 1                        |
| o-Xylene  | < 0.00199                                   | U   | 0.00199   | mg/Kg                         |          | 03/04/24 14:32   | 03/05/24 12:33   | 1                        |
| Xylenes, Total  | <0.00398                                    | U   | 0.00398   | mg/Kg                         |          | 03/04/24 14:32   | 03/05/24 12:33   | 1                        |
| Surrogate   | %Recovery                                   | Qualifier   | Limits  |                               |          | Prepared   | Analyzed   | Dil Fac                  |
| 4-Bromofluorobenzene (Surr)   | 85  |   | 70 - 130  |                               |          | 03/04/24 14:32   | 03/05/24 12:33   | 1                        |
| 1,4-Difluorobenzene (Surr)  | 103   |   | 70 - 130  |                               |          | 03/04/24 14:32   | 03/05/24 12:33   | 1                        |
| Method: TAL SOP Total BTEX -  | Total BTEX Cald                             | culation  |   |                               |          |  |  |                          |
| Analyte   | Result                                      | Qualifier   | RL  | Unit                          | D        | Prepared   | Analyzed   | Dil Fac                  |
| Total BTEX  | <0.00398                                    | U   | 0.00398   | mg/Kg                         |          |  | 03/05/24 12:33   | 1                        |
| Method: SW846 8015 NM - Diese   |   |   | GC)   |                               |          | Danasad  |  | D:: 5                    |
| Analyte   | Result                                      | Qualifier   | GC)   | Unit                          | <u>D</u> | Prepared   | Analyzed   |                          |
|   |   | Qualifier   | GC)   |                               | <u>D</u> | Prepared   |  |                          |
| Analyte   |   | Qualifier U                                       | RL 49.9   | Unit                          | <u>D</u> | Prepared   | Analyzed   |                          |
| Analyte Total TPH   | Result <49.9 sel Range Orga                 | Qualifier U                                       | RL 49.9   | Unit                          | D        | Prepared Prepared  | Analyzed   | 1                        |
| Analyte Total TPH  Method: SW846 8015B NM - Die   | Result <49.9 sel Range Orga                 | Qualifier Unics (DRO) Qualifier                   | RL 49.9 (GC)  | Unit mg/Kg                    |          |  | Analyzed 03/06/24 03:47  | 1                        |
| Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10   | Result <49.9  sel Range Orga Result <49.9   | Qualifier U  nics (DRO) Qualifier U               | (GC)  RL 49.9  (GC)  RL 49.9                                      | Unit mg/Kg  Unit mg/Kg        |          | Prepared 03/05/24 14:08  | Analyzed 03/06/24 03:47  Analyzed 03/06/24 03:47   | Dil Fac                  |
| Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result<br><49.9<br>sel Range Orga<br>Result | Qualifier U  nics (DRO) Qualifier U               | (GC)  RL  49.9  | Unit mg/Kg                    |          | Prepared   | Analyzed 03/06/24 03:47  Analyzed  | 1 Dil Fac                |
| Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)  | Result                                      | Qualifier U  nics (DRO) Qualifier U               | GC)  RL 49.9  (GC)  RL 49.9  49.9                                 | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 03/05/24 14:08  | Analyzed 03/06/24 03:47  Analyzed 03/06/24 03:47 03/06/24 03:47                          | 1 Dil Fac                |
| Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result <49.9  sel Range Orga Result <49.9   | Qualifier U  nics (DRO) Qualifier U               | (GC)  RL 49.9  (GC)  RL 49.9                                      | Unit mg/Kg  Unit mg/Kg        |          | Prepared 03/05/24 14:08  | Analyzed 03/06/24 03:47  Analyzed 03/06/24 03:47   | Dil Fac                  |
| Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                           | Result                                      | Qualifier U  nics (DRO) Qualifier U  U            | GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits                   | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 03/05/24 14:08 03/05/24 14:08 03/05/24 14:08 Prepared                 | Analyzed 03/06/24 03:47  Analyzed 03/06/24 03:47 03/06/24 03:47 03/06/24 03:47  Analyzed | 1 Dil Fac                |
| Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)                                      | Result                                      | Qualifier U  nics (DRO) Qualifier U  U            | GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9                           | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 03/05/24 14:08 03/05/24 14:08   | Analyzed 03/06/24 03:47  Analyzed 03/06/24 03:47 03/06/24 03:47                          | 1 Dil Fac                |
| Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                           | Result                                      | Qualifier U  nics (DRO) Qualifier U  U            | GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits                   | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 03/05/24 14:08 03/05/24 14:08 03/05/24 14:08 Prepared                 | Analyzed 03/06/24 03:47  Analyzed 03/06/24 03:47 03/06/24 03:47 03/06/24 03:47  Analyzed | Dil Fac                  |
| Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane             | Result   <49.9                              | Qualifier U  nics (DRO) Qualifier U  U  Qualifier | GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits 70 - 130 70 - 130 | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 03/05/24 14:08 03/05/24 14:08 03/05/24 14:08  Prepared 03/05/24 14:08 | Analyzed 03/06/24 03:47  Analyzed 03/06/24 03:47 03/06/24 03:47  Analyzed 03/06/24 03:47 | Dil Fac                  |
| Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl | Result                                      | Qualifier U  nics (DRO) Qualifier U  U  Qualifier | GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits 70 - 130 70 - 130 | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 03/05/24 14:08 03/05/24 14:08 03/05/24 14:08  Prepared 03/05/24 14:08 | Analyzed 03/06/24 03:47  Analyzed 03/06/24 03:47 03/06/24 03:47  Analyzed 03/06/24 03:47 | 1<br>1<br><i>Dil Fac</i> |

Client Sample ID: BH24-09 2 Lab Sample ID: 890-6296-2 Matrix: Solid Date Collected: 02/27/24 12:00

Date Received: 03/01/24 09:16

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U *1      | 0.00202  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 12:54 | 1       |
| Toluene                     | <0.00202  | U *1      | 0.00202  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 12:54 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 12:54 | 1       |
| m-Xylene & p-Xylene         | <0.00403  | U         | 0.00403  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 12:54 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 12:54 | 1       |
| Xylenes, Total              | <0.00403  | U         | 0.00403  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 12:54 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 12:54 | 1       |
| 1,4-Difluorobenzene (Surr)  | 110       |           | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 12:54 | 1       |

Client: Vertex

Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1

SDG: 23E-05219

Client Sample ID: BH24-09 2

Date Collected: 02/27/24 12:00 Date Received: 03/01/24 09:16 Lab Sample ID: 890-6296-2

Matrix: Solid

| Analyte                           | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Total BTEX                        | <0.00403       | U           | 0.00403  | mg/Kg |   |                | 03/05/24 12:54 | 1       |
| Method: SW846 8015 NM - Diese     | l Range Organ  | ics (DRO) ( | GC)      |       |   |                |                |         |
| Analyte                           | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                         | <49.7          | U           | 49.7     | mg/Kg |   |                | 03/06/24 04:08 | 1       |
| Method: SW846 8015B NM - Dies     | sel Range Orga | nics (DRO)  | (GC)     |       |   |                |                |         |
| Analyte                           | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics           | <49.7          | U           | 49.7     | mg/Kg |   | 03/05/24 14:08 | 03/06/24 04:08 | 1       |
| (GRO)-C6-C10                      |                |             |          |       |   |                |                |         |
| Diesel Range Organics (Over       | <49.7          | U           | 49.7     | mg/Kg |   | 03/05/24 14:08 | 03/06/24 04:08 | 1       |
| C10-C28)                          |                |             |          |       |   |                |                |         |
| OII Range Organics (Over C28-C36) | <49.7          | U           | 49.7     | mg/Kg |   | 03/05/24 14:08 | 03/06/24 04:08 | 1       |
| Surrogate                         | %Recovery      | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 107            |             | 70 - 130 |       |   | 03/05/24 14:08 | 03/06/24 04:08 | 1       |
| o-Terphenyl                       | 113            |             | 70 - 130 |       |   | 03/05/24 14:08 | 03/06/24 04:08 | 1       |

Client Sample ID: BH24-11 0 Lab Sample ID: 890-6296-3

RL

5.05

Unit

mg/Kg

D

Prepared

Result Qualifier

116

Date Collected: 02/28/24 13:00

Analyte

Chloride

Date Received: 03/01/24 09:16

Analyzed

03/07/24 23:11

**Matrix: Solid** 

Dil Fac

| Analyte  | Result  | Qualifier   | RL                       | Unit                       | D        | Prepared                | Analyzed   | Dil Fa  |
|--|---|---|--------------------------|----------------------------|----------|-------------------------|--|---------|
| Benzene  | <0.00201  | U *1  | 0.00201                  | mg/Kg                      |          | 03/04/24 14:32          | 03/05/24 13:14                                   |         |
| Toluene  | <0.00201  | U *1  | 0.00201                  | mg/Kg                      |          | 03/04/24 14:32          | 03/05/24 13:14                                   | 1       |
| Ethylbenzene   | <0.00201  | U   | 0.00201                  | mg/Kg                      |          | 03/04/24 14:32          | 03/05/24 13:14                                   | 1       |
| m-Xylene & p-Xylene  | <0.00402  | U   | 0.00402                  | mg/Kg                      |          | 03/04/24 14:32          | 03/05/24 13:14                                   | 1       |
| o-Xylene   | <0.00201  | U   | 0.00201                  | mg/Kg                      |          | 03/04/24 14:32          | 03/05/24 13:14                                   | 1       |
| Xylenes, Total   | <0.00402  | U   | 0.00402                  | mg/Kg                      |          | 03/04/24 14:32          | 03/05/24 13:14                                   | 1       |
| Surrogate  | %Recovery   | Qualifier   | Limits                   |                            |          | Prepared                | Analyzed   | Dil Fac |
| 4-Bromofluorobenzene (Surr)  | 105   |   | 70 - 130                 |                            |          | 03/04/24 14:32          | 03/05/24 13:14                                   | 1       |
|  |   |   |                          |                            |          |                         |  |         |
|  |   |   | 70 - 130                 |                            |          | 03/04/24 14:32          | 03/05/24 13:14                                   |         |
| Method: TAL SOP Total BTEX - Analyte   | - Total BTEX Cald   | Qualifier   | RL                       | Unit ma/Ka                 | <u>D</u> | 03/04/24 14:32 Prepared | Analyzed   | Dil Fac |
| Method: TAL SOP Total BTEX - Analyte Total BTEX  | - Total BTEX Calc Result <0.00402   | <b>Qualifier</b><br>U                                 | RL<br>0.00402            | <mark>Unit</mark><br>mg/Kg | <u>D</u> |                         |  | ·       |
| Method: TAL SOP Total BTEX - Analyte   | - Total BTEX Calc<br>Result<br><0.00402<br>sel Range Organ                    | <b>Qualifier</b><br>U                                 | RL<br>0.00402            |                            | <u>D</u> |                         | Analyzed   | ·       |
| Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies  | - Total BTEX Calc<br>Result<br><0.00402<br>sel Range Organ                    | Qualifier U   | RL 0.00402               | mg/Kg                      |          | Prepared                | Analyzed 03/05/24 13:14                          | Dil Fac |
| Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte  | result   Result   Co.00402   Sel Range Organ   Result   So.7                  | Qualifier U ics (DRO) ( Qualifier                     | RL 0.00402  GC) RL 49.9  | mg/Kg                      |          | Prepared                | Analyzed 03/05/24 13:14  Analyzed                | Dil Fac |
| Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Dies | - Total BTEX Calc Result <0.00402 sel Range Organ Result 50.7 esel Range Orga | Qualifier U ics (DRO) ( Qualifier                     | RL 0.00402  GC) RL 49.9  | mg/Kg                      |          | Prepared                | Analyzed 03/05/24 13:14  Analyzed                | Dil Fac |
| Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH                                | - Total BTEX Calc Result <0.00402 sel Range Organ Result 50.7 esel Range Orga | Qualifier U ics (DRO) (Qualifier nics (DRO) Qualifier | RL 0.00402  GC)  RL 49.9 | mg/Kg  Unit  mg/Kg         | <u>D</u> | Prepared Prepared       | Analyzed 03/05/24 13:14  Analyzed 03/06/24 04:31 | Dil Fac |

Client: Vertex Project/Site: Mis Amigos tank battery SDG: 23E-05219

Client Sample ID: BH24-11 0 Lab Sample ID: 890-6296-3

Date Collected: 02/28/24 13:00 Matrix: Solid Date Received: 03/01/24 09:16

| Analyte                           | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oll Range Organics (Over C28-C36) | <49.9     | U         | 49.9     | mg/Kg |   | 03/05/24 14:08 | 03/06/24 04:31 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 115       |           | 70 - 130 |       |   | 03/05/24 14:08 | 03/06/24 04:31 | 1       |
| o-Terphenyl                       | 119       |           | 70 - 130 |       |   | 03/05/24 14:08 | 03/06/24 04:31 | 1       |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 202 5.01 03/07/24 23:18 mg/Kg

Client Sample ID: BH24-11 2 Lab Sample ID: 890-6296-4 Date Collected: 02/28/24 13:10 **Matrix: Solid** 

Date Received: 03/01/24 09:16

| A I 4 -   | D- "  | O                 | D.   | 1114          | _        | D  | A I  | D:: E  |
|---|---|-------------------|--|---------------|----------|--|--|--------|
| Analyte   |   | Qualifier         | RL   | Unit          | D        | Prepared   | Analyzed   | Dil Fa |
| Benzene   | <0.00200  |                   | 0.00200  | mg/Kg         |          | 03/04/24 14:32   | 03/05/24 13:34   |        |
| Toluene   | <0.00200  | U *1              | 0.00200  | mg/Kg         |          | 03/04/24 14:32   | 03/05/24 13:34   |        |
| Ethylbenzene  | <0.00200  | U                 | 0.00200  | mg/Kg         |          | 03/04/24 14:32   | 03/05/24 13:34   |        |
| m-Xylene & p-Xylene   | <0.00401  | U                 | 0.00401  | mg/Kg         |          | 03/04/24 14:32   | 03/05/24 13:34   |        |
| o-Xylene  | <0.00200  | U                 | 0.00200  | mg/Kg         |          | 03/04/24 14:32   | 03/05/24 13:34   |        |
| Xylenes, Total  | <0.00401  | U                 | 0.00401  | mg/Kg         |          | 03/04/24 14:32   | 03/05/24 13:34   |        |
| Surrogate   | %Recovery   | Qualifier         | Limits   |               |          | Prepared   | Analyzed   | Dil Fa |
| 4-Bromofluorobenzene (Surr)   | 108   |                   | 70 - 130   |               |          | 03/04/24 14:32   | 03/05/24 13:34   |        |
| 1,4-Difluorobenzene (Surr)  | 114   |                   | 70 - 130   |               |          | 03/04/24 14:32   | 03/05/24 13:34   |        |
| Method: TAL SOP Total BTEX - 1  | Total BTEX Cald   | culation          |  |               |          |  |  |        |
| Analyte   | Result  | Qualifier         | RL   | Unit          | D        | Prepared   | Analyzed   | Dil Fa |
| Total BTEX  | <0.00401  | U                 | 0.00401  | mg/Kg         |          |  | 03/05/24 13:34   |        |
| Method: SW846 8015 NM - Diese   | el Range Organ  | ics (DRO) (       | GC)  |               |          |  |  |        |
| Analyte   |   | Qualifier         | RL   | Unit          | D        | Prepared   | Analyzed   | Dil Fa |
| Total TPH   | <50.0   | U                 | 50.0   | mg/Kg         |          |  | 03/06/24 04:54   |        |
| Method: SW846 8015B NM - Die:   | sel Range Orga  | nics (DRO)        | (GC)   |               |          |  |  |        |
|   |   |                   |  |               |          |  |  |        |
| Analyte   | Result  | Qualifier         | RL   | Unit          | D        | Prepared   | Analyzed   | Dil Fa |
|   | Result   <50.0  |                   |  | Unit<br>mg/Kg | <u>D</u> | Prepared 03/05/24 14:08  | Analyzed 03/06/24 04:54  | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10  |   |                   |  |               | <u>D</u> |  |  | Dil Fa |
| Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over  |   | U                 |  |               | <u>D</u> |  |  | Dil Fa |
| Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)  | <50.0<br><50.0  | U<br>U            | 50.0   | mg/Kg         | <u>D</u> | 03/05/24 14:08   | 03/06/24 04:54   |        |
| Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over  | <50.0   | U<br>U            | 50.0   | mg/Kg         | <u>D</u> | 03/05/24 14:08   | 03/06/24 04:54   |        |
| Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28)  | <50.0<br><50.0<br><50.0<br>%Recovery                      | U<br>U<br>U       | 50.0   | mg/Kg         | <u>D</u> | 03/05/24 14:08   | 03/06/24 04:54<br>03/06/24 04:54<br>03/06/24 04:54<br>Analyzed                   |        |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)                                       | <50.0<br><50.0<br><50.0                                   | U<br>U<br>U       | 50.0<br>50.0<br>50.0                                   | mg/Kg         | <u>D</u> | 03/05/24 14:08<br>03/05/24 14:08<br>03/05/24 14:08                               | 03/06/24 04:54<br>03/06/24 04:54<br>03/06/24 04:54                               |        |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                            | <50.0<br><50.0<br><50.0<br>%Recovery                      | U<br>U<br>U       | 50.0<br>50.0<br>50.0<br><i>Limits</i>                  | mg/Kg         | <u>D</u> | 03/05/24 14:08<br>03/05/24 14:08<br>03/05/24 14:08<br>Prepared                   | 03/06/24 04:54<br>03/06/24 04:54<br>03/06/24 04:54<br>Analyzed                   | Dil Fa |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane             | <50.0<br><50.0<br><50.0<br><b>%Recovery</b><br>129<br>139 | U U Qualifier S1+ | 50.0<br>50.0<br>50.0<br>Limits<br>70 - 130<br>70 - 130 | mg/Kg         | <u>D</u> | 03/05/24 14:08<br>03/05/24 14:08<br>03/05/24 14:08<br>Prepared<br>03/05/24 14:08 | 03/06/24 04:54<br>03/06/24 04:54<br>03/06/24 04:54<br>Analyzed<br>03/06/24 04:54 | Dil Fa |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl | <50.0 <50.0 <50.0  %Recovery 129 139 Chromatograp         | U U Qualifier S1+ | 50.0<br>50.0<br>50.0<br>Limits<br>70 - 130<br>70 - 130 | mg/Kg         | <u>D</u> | 03/05/24 14:08<br>03/05/24 14:08<br>03/05/24 14:08<br>Prepared<br>03/05/24 14:08 | 03/06/24 04:54<br>03/06/24 04:54<br>03/06/24 04:54<br>Analyzed<br>03/06/24 04:54 | Dil Fa |

Client: Vertex Project/Site: Mis Amigos tank battery SDG: 23E-05219

Client Sample ID: BH24-12 0 Lab Sample ID: 890-6296-5

Date Collected: 02/27/24 13:30 Matrix: Solid Date Received: 03/01/24 09:16

| Analyte                                    | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene                                    | <0.00200       | U *1        | 0.00200  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 13:55 | 1       |
| Toluene                                    | <0.00200       | U *1        | 0.00200  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 13:55 | 1       |
| Ethylbenzene                               | <0.00200       | U           | 0.00200  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 13:55 | 1       |
| m-Xylene & p-Xylene                        | <0.00399       | U           | 0.00399  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 13:55 | 1       |
| o-Xylene                                   | <0.00200       | U           | 0.00200  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 13:55 | 1       |
| Xylenes, Total                             | <0.00399       | U           | 0.00399  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 13:55 | 1       |
| Surrogate                                  | %Recovery      | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)                | 107            |             | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 13:55 | 1       |
| 1,4-Difluorobenzene (Surr)                 | 103            |             | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 13:55 | 1       |
| Method: TAL SOP Total BTEX - T             | otal BTEX Cald | culation    |          |       |   |                |                |         |
| Analyte                                    | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total BTEX                                 | <0.00399       | U           | 0.00399  | mg/Kg |   |                | 03/05/24 13:55 | 1       |
| Method: SW846 8015 NM - Diese              | l Range Organ  | ics (DRO) ( | GC)      |       |   |                |                |         |
| Analyte                                    |                | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                                  | <50.1          | U           | 50.1     | mg/Kg |   |                | 03/06/24 05:15 | 1       |
| -<br>Method: SW846 8015B NM - Dies         | sel Range Orga | nics (DRO)  | (GC)     |       |   |                |                |         |
| Analyte                                    | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10    | <50.1          | U           | 50.1     | mg/Kg |   | 03/05/24 14:08 | 03/06/24 05:15 | 1       |
| Diesel Range Organics (Over                | <50.1          | U           | 50.1     | mg/Kg |   | 03/05/24 14:08 | 03/06/24 05:15 | 1       |
| C10-C28) Oll Range Organics (Over C28-C36) | <50.1          | U           | 50.1     | mg/Kg |   | 03/05/24 14:08 | 03/06/24 05:15 | 1       |
| Surrogate                                  | %Recovery      | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                             | 134            | S1+         | 70 - 130 |       |   | 03/05/24 14:08 | 03/06/24 05:15 |         |
| o-Terphenyl                                | 145            | S1+         | 70 - 130 |       |   | 03/05/24 14:08 | 03/06/24 05:15 | 1       |
| Method: EPA 300.0 - Anions, Ion            | Chromatograp   | hy - Solubl | e        |       |   |                |                |         |
|  |                | -           |          |       |   |                |                |         |
| Analyte                                    | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |

Client Sample ID: BH24-12 4 Lab Sample ID: 890-6296-6

Matrix: Solid Date Collected: 02/28/24 13:30 Date Received: 03/01/24 09:16

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U *1      | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 14:15 | 1       |
| Toluene                     | <0.00198  | U *1      | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 14:15 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 14:15 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 14:15 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 14:15 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 14:15 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 14:15 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109       |           | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 14:15 | 1       |

## **Client Sample Results**

Client: Vertex Job ID: 890-6296-1 Project/Site: Mis Amigos tank battery SDG: 23E-05219

Client Sample ID: BH24-12 4

Lab Sample ID: 890-6296-6 Date Collected: 02/28/24 13:30

Matrix: Solid

Date Received: 03/01/24 09:16

| _<br>Method: TAL SOP Total BTEX - T  | otal BTEX Cald | culation    |          |       |   |                |                |         |
|--------------------------------------|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Analyte                              |                | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total BTEX                           | <0.00397       | U           | 0.00397  | mg/Kg |   |                | 03/05/24 14:15 | 1       |
| -<br>Method: SW846 8015 NM - Diese   | l Range Organ  | ics (DRO) ( | GC)      |       |   |                |                |         |
| Analyte                              | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                            | <50.4          | U           | 50.4     | mg/Kg |   |                | 03/06/24 05:36 | 1       |
| –<br>Method: SW846 8015B NM - Dies   | el Range Orga  | nics (DRO)  | (GC)     |       |   |                |                |         |
| Analyte                              | •              | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics              | <50.4          | U           | 50.4     | mg/Kg |   | 03/05/24 14:08 | 03/06/24 05:36 | 1       |
| (GRO)-C6-C10                         |                |             |          |       |   |                |                |         |
| Diesel Range Organics (Over          | <50.4          | U           | 50.4     | mg/Kg |   | 03/05/24 14:08 | 03/06/24 05:36 | 1       |
| C10-C28)                             |                |             |          |       |   |                |                |         |
| OII Range Organics (Over C28-C36)    | <50.4          | U           | 50.4     | mg/Kg |   | 03/05/24 14:08 | 03/06/24 05:36 | 1       |
| Surrogate                            | %Recovery      | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 113            |             | 70 - 130 |       |   | 03/05/24 14:08 | 03/06/24 05:36 | 1       |
| o-Terphenyl                          | 122            |             | 70 - 130 |       |   | 03/05/24 14:08 | 03/06/24 05:36 | 1       |
| _<br>Method: EPA 300.0 - Anions, Ion | Chromatogran   | hv - Solubl | e        |       |   |                |                |         |
| Analyte                              |                | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                             | 2650           |             | 25.2     | mg/Kg |   |                | 03/07/24 23:54 | 5       |

Client Sample ID: BH24-12 8 Lab Sample ID: 890-6296-7 **Matrix: Solid** 

Date Collected: 02/28/24 15:20

Date Received: 03/01/24 09:16

| Analyte  | Result  | Qualifier  | RL                                 | Unit               | D        | Prepared                | Analyzed   | Dil Fac |
|--|---|--|------------------------------------|--------------------|----------|-------------------------|--|---------|
| Benzene  | <0.00200  | U *1   | 0.00200                            | mg/Kg              |          | 03/04/24 14:32          | 03/05/24 14:36                                   | 1       |
| Toluene  | <0.00200  | U *1   | 0.00200                            | mg/Kg              |          | 03/04/24 14:32          | 03/05/24 14:36                                   | 1       |
| Ethylbenzene   | <0.00200  | U  | 0.00200                            | mg/Kg              |          | 03/04/24 14:32          | 03/05/24 14:36                                   | 1       |
| m-Xylene & p-Xylene  | <0.00400  | U  | 0.00400                            | mg/Kg              |          | 03/04/24 14:32          | 03/05/24 14:36                                   | 1       |
| o-Xylene   | <0.00200  | U  | 0.00200                            | mg/Kg              |          | 03/04/24 14:32          | 03/05/24 14:36                                   | 1       |
| Xylenes, Total   | <0.00400  | U  | 0.00400                            | mg/Kg              |          | 03/04/24 14:32          | 03/05/24 14:36                                   | 1       |
| Surrogate  | %Recovery   | Qualifier  | Limits                             |                    |          | Prepared                | Analyzed   | Dil Fac |
|  |   |  | 70 - 130                           |                    |          | 03/04/24 14:32          | 03/05/24 14:36                                   |         |
| 4-Bromofluorobenzene (Surr)  | 111   |  |                                    |                    |          | 00/0 //2 / / //02       |  |         |
| 1,4-Difluorobenzene (Surr)   | 105   | culation   | 70 - 130                           |                    |          | 03/04/24 14:32          | 03/05/24 14:36                                   | 1       |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX -   | 105 Total BTEX Calc   | culation<br>Qualifier                                      | 70 - 130<br>RL                     | Unit               | D        |                         | 03/05/24 14:36 Analyzed                          |         |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX - Analyte   | 105 Total BTEX Calc   | Qualifier  |                                    | Unit<br>mg/Kg      | <u>D</u> | 03/04/24 14:32          |  | Dil Fac |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX - Analyte  Total BTEX   | Total BTEX Calc Result <0.00400   | <b>Qualifier</b><br>U                                      | RL 0.00400                         |                    | <u>D</u> | 03/04/24 14:32          | Analyzed   |         |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies  | Total BTEX Calc Result <0.00400 el Range Organ                              | <b>Qualifier</b><br>U                                      | RL 0.00400                         |                    | <u>D</u> | 03/04/24 14:32          | Analyzed   | •       |
| 4-Bromofluorobenzene (Surr)  1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX - Analyte  Total BTEX  Method: SW846 8015 NM - Dies Analyte  Total TPH   | Total BTEX Calc Result <0.00400 el Range Organ                              | Qualifier U ics (DRO) (Qualifier                           | RL 0.00400                         | mg/Kg              |          | 03/04/24 14:32 Prepared | Analyzed 03/05/24 14:36                          | Dil Fac |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX - Analyte  Total BTEX  Method: SW846 8015 NM - Dies Analyte   | Total BTEX Calc Result <0.00400 el Range Organ Result <50.5                 | Qualifier U ics (DRO) ( Qualifier U                        | RL 0.00400 GC) RL 50.5             | mg/Kg              |          | 03/04/24 14:32 Prepared | Analyzed 03/05/24 14:36 Analyzed                 | Dil Fac |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX - Analyte  Total BTEX  Method: SW846 8015 NM - Dies Analyte  Total TPH                                | Total BTEX Calc Result <0.00400 el Range Organ Result <50.5 esel Range Orga | Qualifier U ics (DRO) ( Qualifier U                        | RL 0.00400 GC) RL 50.5             | mg/Kg              |          | 03/04/24 14:32 Prepared | Analyzed 03/05/24 14:36 Analyzed                 | Dil Fac |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX - Analyte  Total BTEX  Method: SW846 8015 NM - Dies Analyte  Total TPH  Method: SW846 8015B NM - Dies | Total BTEX Calc Result <0.00400 el Range Organ Result <50.5 esel Range Orga | Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier | RL<br>0.00400<br>GC)<br>RL<br>50.5 | mg/Kg  Unit  mg/Kg | <u>D</u> | Prepared Prepared       | Analyzed 03/05/24 14:36  Analyzed 03/06/24 05:57 | Dil Fac |

Client: Vertex Project/Site: Mis Amigos tank battery SDG: 23E-05219

Client Sample ID: BH24-12 8 Lab Sample ID: 890-6296-7

Date Collected: 02/28/24 15:20 Matrix: Solid Date Received: 03/01/24 09:16

| Analyte                           | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oll Range Organics (Over C28-C36) | <50.5     | U         | 50.5     | mg/Kg |   | 03/05/24 14:08 | 03/06/24 05:57 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 124       |           | 70 - 130 |       |   | 03/05/24 14:08 | 03/06/24 05:57 | 1       |
| o-Terphenyl                       | 134       | S1+       | 70 - 130 |       |   | 03/05/24 14:08 | 03/06/24 05:57 | 1       |

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 25.3 03/08/24 00:01 Chloride 2520 mg/Kg

Client Sample ID: BH24-13 0 Lab Sample ID: 890-6296-8 Date Collected: 02/28/24 09:45 **Matrix: Solid** 

Date Received: 03/01/24 09:16

| Analyte  | Result                                    | Qualifier   | RL   | Unit                      | D        | Prepared   | Analyzed  | Dil Fa         |
|--|---|---|--|---------------------------|----------|--|---|----------------|
| Benzene  | <0.00199                                  | U *1  | 0.00199  | mg/Kg                     |          | 03/04/24 14:32   | 03/05/24 14:56  |                |
| Toluene  | < 0.00199                                 | U *1  | 0.00199  | mg/Kg                     |          | 03/04/24 14:32   | 03/05/24 14:56  |                |
| Ethylbenzene   | < 0.00199                                 | U   | 0.00199  | mg/Kg                     |          | 03/04/24 14:32   | 03/05/24 14:56  |                |
| m-Xylene & p-Xylene  | <0.00398                                  | U   | 0.00398  | mg/Kg                     |          | 03/04/24 14:32   | 03/05/24 14:56  |                |
| o-Xylene   | < 0.00199                                 | U   | 0.00199  | mg/Kg                     |          | 03/04/24 14:32   | 03/05/24 14:56  |                |
| Xylenes, Total   | <0.00398                                  | U   | 0.00398  | mg/Kg                     |          | 03/04/24 14:32   | 03/05/24 14:56  |                |
| Surrogate  | %Recovery                                 | Qualifier   | Limits   |                           |          | Prepared   | Analyzed  | Dil Fa         |
| 4-Bromofluorobenzene (Surr)  | 112                                       |   | 70 - 130   |                           |          | 03/04/24 14:32   | 03/05/24 14:56  |                |
| 1,4-Difluorobenzene (Surr)   | 113                                       |   | 70 - 130   |                           |          | 03/04/24 14:32   | 03/05/24 14:56  |                |
| Method: TAL SOP Total BTEX - 1   | Total BTEX Cald                           | culation  |  |                           |          |  |   |                |
| Analyte  | Result                                    | Qualifier   | RL   | Unit                      | D        | Prepared   | Analyzed  | Dil Fa         |
| Total BTEX   | <0.00398                                  | U   | 0.00398  | mg/Kg                     |          |  | 03/05/24 14:56  |                |
|  |   |   | •  | Unit                      | n        | Prenared   | <b>∆</b> nalvzed  | Dil Fa         |
| Method: SW846 8015 NM - Diese<br>Analyte   |   | ics (DRO) (<br>Qualifier                                  | GC)  | Unit                      | D        | Prepared   | Analyzed  | Dil Fa         |
|  |   | Qualifier   | •  | Unit<br>mg/Kg             | <u>D</u> | Prepared   | Analyzed 03/06/24 06:18   |                |
| Analyte  | Result   <50.0                            | Qualifier U   | RL 50.0  |                           | <u>D</u> | Prepared   |   | Dil Fa         |
| Analyte Total TPH  | Result <50.0                              | Qualifier U   | RL 50.0  |                           | <u>D</u> | Prepared Prepared  |   |                |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics   | Result <50.0                              | Qualifier Unics (DRO) Qualifier                           | RL 50.0  | mg/Kg                     |          | · · ·  | 03/06/24 06:18  | Dil Fa         |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte   | Result <50.0  sel Range Orga Result       | Qualifier U  nics (DRO) Qualifier U                       | RL 50.0 (GC)   | mg/Kg                     |          | Prepared   | 03/06/24 06:18  Analyzed  | Dil Fa         |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10  | Result <50.0  Sel Range Orga Result <50.0 | Qualifier U  nics (DRO) Qualifier U                       | RL 50.0 (GC) RL 50.0   | mg/Kg  Unit  mg/Kg        |          | Prepared 03/05/24 14:08  | 03/06/24 06:18  Analyzed  03/06/24 06:18  |                |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result <50.0  Sel Range Orga Result <50.0 | Qualifier U  nics (DRO) Qualifier U                       | RL 50.0 (GC) RL 50.0   | mg/Kg  Unit  mg/Kg        |          | Prepared 03/05/24 14:08  | 03/06/24 06:18  Analyzed  03/06/24 06:18  |                |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)   | Result   <50.0                            | Qualifier U  nics (DRO) Qualifier U  U                    | RL 50.0 (GC) RL 50.0 50.0  | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 03/05/24 14:08 03/05/24 14:08   | 03/06/24 06:18  Analyzed 03/06/24 06:18  03/06/24 06:18   | Dil Fa         |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)                                       | Result   <50.0                            | Qualifier U  nics (DRO) Qualifier U  U                    | RL 50.0  (GC)  RL 50.0  50.0  50.0   | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 03/05/24 14:08 03/05/24 14:08   | 03/06/24 06:18  Analyzed 03/06/24 06:18 03/06/24 06:18 03/06/24 06:18                             | Dil Fa         |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane             | Result   <50.0                            | Qualifier U  nics (DRO) Qualifier U  U  Qualifier         | RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits   | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 03/05/24 14:08 03/05/24 14:08 03/05/24 14:08 Prepared                 | 03/06/24 06:18  Analyzed 03/06/24 06:18 03/06/24 06:18 03/06/24 06:18 Analyzed                    | Dil Fa         |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                            | Result   <50.0                            | Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+ S1+ | RL<br>50.0<br>(GC)<br>RL<br>50.0<br>50.0<br>50.0<br>Limits<br>70 - 130<br>70 - 130 | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 03/05/24 14:08 03/05/24 14:08 03/05/24 14:08  Prepared 03/05/24 14:08 | 03/06/24 06:18  Analyzed 03/06/24 06:18  03/06/24 06:18  03/06/24 06:18  Analyzed  03/06/24 06:18 | Dil Fa         |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl | Result   <50.0                            | Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+ S1+ | RL<br>50.0<br>(GC)<br>RL<br>50.0<br>50.0<br>50.0<br>Limits<br>70 - 130<br>70 - 130 | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 03/05/24 14:08 03/05/24 14:08 03/05/24 14:08  Prepared 03/05/24 14:08 | 03/06/24 06:18  Analyzed 03/06/24 06:18  03/06/24 06:18  03/06/24 06:18  Analyzed  03/06/24 06:18 | Dil Fa  Dil Fa |

Client: Vertex Project/Site: Mis Amigos tank battery SDG: 23E-05219

Client Sample ID: BH24-13 2 Lab Sample ID: 890-6296-9

Date Collected: 02/28/24 09:55 Matrix: Solid Date Received: 03/01/24 09:16

| Analyte                                     | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene                                     | <0.00198       | U *1        | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 15:17 | 1       |
| Toluene                                     | <0.00198       | U *1        | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 15:17 | 1       |
| Ethylbenzene                                | <0.00198       | U           | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 15:17 | 1       |
| m-Xylene & p-Xylene                         | <0.00396       | U           | 0.00396  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 15:17 | 1       |
| o-Xylene                                    | <0.00198       | U           | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 15:17 | 1       |
| Xylenes, Total                              | <0.00396       | U           | 0.00396  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 15:17 | 1       |
| Surrogate                                   | %Recovery      | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)                 | 107            |             | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 15:17 |         |
| 1,4-Difluorobenzene (Surr)                  | 108            |             | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 15:17 | 1       |
| -<br>Method: TAL SOP Total BTEX - T         | otal BTEX Cald | culation    |          |       |   |                |                |         |
| Analyte                                     | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total BTEX                                  | <0.00396       | U           | 0.00396  | mg/Kg |   |                | 03/05/24 15:17 | 1       |
| -<br>Method: SW846 8015 NM - Diese          | l Range Organ  | ics (DRO) ( | GC)      |       |   |                |                |         |
| Analyte                                     |                | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                                   | <49.7          | U           | 49.7     | mg/Kg |   |                | 03/06/24 10:45 | 1       |
| -<br>Method: SW846 8015B NM - Dies          | sel Range Orga | nics (DRO)  | (GC)     |       |   |                |                |         |
| Analyte                                     | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics                     | <49.7          | U           | 49.7     | mg/Kg |   | 03/05/24 17:05 | 03/06/24 10:45 | 1       |
| (GRO)-C6-C10<br>Diesel Range Organics (Over | <49.7          | U           | 49.7     | mg/Kg |   | 03/05/24 17:05 | 03/06/24 10:45 | 1       |
| C10-C28)                                    |                | ·           |          | 99    |   | 00,00,211100   | 00/00/21 10:10 |         |
| Oll Range Organics (Over C28-C36)           | <49.7          | U           | 49.7     | mg/Kg |   | 03/05/24 17:05 | 03/06/24 10:45 | 1       |
| Surrogate                                   | %Recovery      | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                              | 122            |             | 70 - 130 |       |   | 03/05/24 17:05 | 03/06/24 10:45 | 1       |
| o-Terphenyl                                 | 109            |             | 70 - 130 |       |   | 03/05/24 17:05 | 03/06/24 10:45 | 1       |
| Method: EPA 300.0 - Anions, Ion             | Chromatograp   | hy - Solubl | e        |       |   |                |                |         |
| Analyte                                     |                | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| , <b></b>                                   |                |             |          |       |   |                |                |         |

Client Sample ID: BH24-14 0 Lab Sample ID: 890-6296-10

Date Collected: 02/28/24 10:00 **Matrix: Solid** Date Received: 03/01/24 09:16

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U *1      | 0.00202  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 15:37 | 1       |
| Toluene                     | <0.00202  | U *1      | 0.00202  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 15:37 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 15:37 | 1       |
| m-Xylene & p-Xylene         | <0.00403  | U         | 0.00403  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 15:37 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 15:37 | 1       |
| Xylenes, Total              | <0.00403  | U         | 0.00403  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 15:37 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 111       | -         | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 15:37 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109       |           | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 15:37 | 1       |

## **Client Sample Results**

Client: Vertex Job ID: 890-6296-1 Project/Site: Mis Amigos tank battery SDG: 23E-05219

Client Sample ID: BH24-14 0 Lab Sample ID: 890-6296-10

Date Collected: 02/28/24 10:00 Matrix: Solid Date Received: 03/01/24 09:16

| Analyte                           | Result        | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Total BTEX                        | <0.00403      | U           | 0.00403  | mg/Kg |   |                | 03/05/24 15:37 | 1       |
| Method: SW846 8015 NM - Diese     | l Range Organ | ics (DRO) ( | GC)      |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                         | <50.5         | U           | 50.5     | mg/Kg |   |                | 03/06/24 11:51 | 1       |
| Method: SW846 8015B NM - Dies     | el Range Orga | nics (DRO)  | (GC)     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics           | <50.5         | U           | 50.5     | mg/Kg |   | 03/05/24 17:05 | 03/06/24 11:51 | 1       |
| (GRO)-C6-C10                      |               |             |          |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.5         | U           | 50.5     | mg/Kg |   | 03/05/24 17:05 | 03/06/24 11:51 | 1       |
| C10-C28)                          |               |             |          |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <50.5         | U           | 50.5     | mg/Kg |   | 03/05/24 17:05 | 03/06/24 11:51 | 1       |
| Surrogate                         | %Recovery     | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 58            | S1-         | 70 - 130 |       |   | 03/05/24 17:05 | 03/06/24 11:51 | 1       |
| o-Terphenyl                       | 51            | S1-         | 70 - 130 |       |   | 03/05/24 17:05 | 03/06/24 11:51 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp  | hy - Solubl | e        |       |   |                |                |         |
| Analyte                           |               | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                          | 72.5          |             | 5.00     | mg/Kg |   |                | 03/08/24 00:37 |         |

Client Sample ID: BH24-14 2 Lab Sample ID: 890-6296-11

| Date Collected: 02/28/24 10:05                        | Matrix: Solid |
|---|---------------|
| Date Received: 03/01/24 09:16                         |               |
| Method: SW846 8021B - Volatile Organic Compounds (GC) |               |

| Analyte  | Result   | Qualifier  | RL                       | Unit                       | D        | Prepared          | Analyzed   | Dil Fac |
|--|--|--|--------------------------|----------------------------|----------|-------------------|--|---------|
| Benzene  | <0.00201   | U *1   | 0.00201                  | mg/Kg                      |          | 03/04/24 14:32    | 03/05/24 17:28                                   | 1       |
| Toluene  | <0.00201   | U *1   | 0.00201                  | mg/Kg                      |          | 03/04/24 14:32    | 03/05/24 17:28                                   | 1       |
| Ethylbenzene   | <0.00201   | U  | 0.00201                  | mg/Kg                      |          | 03/04/24 14:32    | 03/05/24 17:28                                   | 1       |
| m-Xylene & p-Xylene  | <0.00402   | U  | 0.00402                  | mg/Kg                      |          | 03/04/24 14:32    | 03/05/24 17:28                                   | 1       |
| o-Xylene   | <0.00201   | U  | 0.00201                  | mg/Kg                      |          | 03/04/24 14:32    | 03/05/24 17:28                                   | 1       |
| Xylenes, Total   | <0.00402   | U  | 0.00402                  | mg/Kg                      |          | 03/04/24 14:32    | 03/05/24 17:28                                   | 1       |
| Surrogate  | %Recovery  | Qualifier  | Limits                   |                            |          | Prepared          | Analyzed   | Dil Fac |
| 4-Bromofluorobenzene (Surr)  | 84   |  | 70 - 130                 |                            |          | 03/04/24 14:32    | 03/05/24 17:28                                   | 1       |
|  | 105  |  | 70 - 130                 |                            |          | 03/04/24 14:32    | 03/05/24 17:28                                   | 1       |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte   | - Total BTEX Cald  | culation<br>Qualifier                                    | 70 - 730<br>RL           | Unit                       | D        | Prepared          | Analyzed   | ·       |
| Method: TAL SOP Total BTEX   | - Total BTEX Cald  | Qualifier  |                          |                            | <u>D</u> |                   |  | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  | - Total BTEX Calc Result <0.00402  | <b>Qualifier</b><br>U                                    | RL 0.00402               | <mark>Unit</mark><br>mg/Kg | <u>D</u> |                   | Analyzed   | •       |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die   | - Total BTEX Calc<br>Result<br><0.00402  | Qualifier U  | RL 0.00402               | mg/Kg                      | <u>D</u> | Prepared          | Analyzed 03/05/24 17:28                          | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  | - Total BTEX Calc<br>Result<br><0.00402  | <b>Qualifier</b><br>U                                    | RL 0.00402               |                            | <u>D</u> |                   | Analyzed   | •       |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die   | - Total BTEX Calc<br>Result<br><0.00402  | Qualifier U ics (DRO) ( Qualifier                        | RL 0.00402               | mg/Kg                      |          | Prepared          | Analyzed 03/05/24 17:28                          | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte                                       | - Total BTEX Calc Result <0.00402 seel Range Organ Result <49.7                  | Qualifier U ics (DRO) ( Qualifier U                      | RL 0.00402  GC) RL 49.7  | mg/Kg                      |          | Prepared          | Analyzed 03/05/24 17:28 Analyzed                 | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH                             | - Total BTEX Calc Result <0.00402 seel Range Organ Result <49.7 iesel Range Orga | Qualifier U ics (DRO) ( Qualifier U                      | RL 0.00402  GC) RL 49.7  | mg/Kg                      |          | Prepared          | Analyzed 03/05/24 17:28 Analyzed                 | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D | - Total BTEX Calc Result <0.00402 seel Range Organ Result <49.7 iesel Range Orga | Qualifier U ics (DRO) ( Qualifier U nics (DRO) Qualifier | RL 0.00402  GC)  RL 49.7 | mg/Kg  Unit  mg/Kg         | <u>D</u> | Prepared Prepared | Analyzed 03/05/24 17:28  Analyzed 03/06/24 10:45 | Dil Fac |

Client: Vertex Job ID: 890-6296-1 Project/Site: Mis Amigos tank battery SDG: 23E-05219

Client Sample ID: BH24-14 2 Lab Sample ID: 890-6296-11

Date Collected: 02/28/24 10:05 Matrix: Solid Date Received: 03/01/24 09:16

| Analyte                           | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oll Range Organics (Over C28-C36) | <49.7     | U         | 49.7     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 10:45 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 149       | S1+       | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 10:45 | 1       |
| o-Terphenyl                       | 169       | S1+       | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 10:45 | 1       |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 44.1 4.99 03/08/24 00:44 mg/Kg

Client Sample ID: BH24-15 0 Lab Sample ID: 890-6296-12 Date Collected: 02/28/24 10:30 **Matrix: Solid** 

Date Received: 03/01/24 09:16

| Analyte   | Result                                  | Qualifier       | RL                               | Unit                       | D        | Prepared                                 | Analyzed                                 | Dil Fa |
|---|---|-----------------|----------------------------------|----------------------------|----------|--|--|--------|
| Benzene   | <0.00200                                | U *1            | 0.00200                          | mg/Kg                      |          | 03/04/24 14:32                           | 03/05/24 17:48                           |        |
| Toluene   | <0.00200                                | U *1            | 0.00200                          | mg/Kg                      |          | 03/04/24 14:32                           | 03/05/24 17:48                           |        |
| Ethylbenzene  | <0.00200                                | U               | 0.00200                          | mg/Kg                      |          | 03/04/24 14:32                           | 03/05/24 17:48                           |        |
| m-Xylene & p-Xylene   | <0.00401                                | U               | 0.00401                          | mg/Kg                      |          | 03/04/24 14:32                           | 03/05/24 17:48                           |        |
| o-Xylene  | <0.00200                                | U               | 0.00200                          | mg/Kg                      |          | 03/04/24 14:32                           | 03/05/24 17:48                           |        |
| Xylenes, Total  | <0.00401                                | U               | 0.00401                          | mg/Kg                      |          | 03/04/24 14:32                           | 03/05/24 17:48                           |        |
| Surrogate   | %Recovery                               | Qualifier       | Limits                           |                            |          | Prepared                                 | Analyzed                                 | Dil Fa |
| 4-Bromofluorobenzene (Surr)   | 110                                     | -               | 70 - 130                         |                            |          | 03/04/24 14:32                           | 03/05/24 17:48                           |        |
| 1,4-Difluorobenzene (Surr)  | 115                                     |                 | 70 - 130                         |                            |          | 03/04/24 14:32                           | 03/05/24 17:48                           |        |
| -<br>Method: TAL SOP Total BTEX - 1   | Total BTEX Cale                         | culation        |                                  |                            |          |  |  |        |
| Analyte   | Result                                  | Qualifier       | RL                               | Unit                       | D        | Prepared                                 | Analyzed                                 | Dil Fa |
| Total BTEX  | <0.00401                                | U               | 0.00401                          | mg/Kg                      |          |  | 03/05/24 17:48                           |        |
| Analyte Total TPH   | <50.5                                   | Qualifier<br>U  | RL<br>50.5                       | <mark>Unit</mark><br>mg/Kg | <u>D</u> | Prepared                                 | Analyzed 03/06/24 11:51                  | Dil Fa |
|   |   |                 | <b>(2.2</b> )                    |                            |          |  |  |        |
| Method: SW846 8015B NM - Dies   |   | ,               | ` '                              | 11-4                       | -        | D  | A  | D!! E- |
| Analyte   |   | Qualifier       | RL                               | Unit                       | D        | Prepared                                 | Analyzed                                 | Dil Fa |
| Gasoline Range Organics<br>(GRO)-C6-C10   | <50.5                                   | U               | 50.5                             | mg/Kg                      |          | 03/05/24 16:53                           | 03/06/24 11:51                           |        |
|   |   |                 |                                  |                            |          |  |  |        |
| Diesel Range Organics (Over   | <50.5                                   | U               | 50.5                             | mg/Kg                      |          | 03/05/24 16:53                           | 03/06/24 11:51                           |        |
| Diesel Range Organics (Over C10-C28)  | <50.5<br><50.5                          |                 | 50.5<br>50.5                     | mg/Kg<br>mg/Kg             |          | 03/05/24 16:53                           | 03/06/24 11:51                           |        |
| Diesel Range Organics (Over C10-C28)  |   | U               |                                  |                            |          |  |  |        |
| Diesel Range Organics (Over<br>C10-C28)<br>Oll Range Organics (Over C28-C36)                                  | <50.5                                   | U               | 50.5                             |                            |          | 03/05/24 16:53                           | 03/06/24 11:51                           |        |
| Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane              | <50.5  **Recovery  123                  | U               | 50.5                             |                            |          | 03/05/24 16:53  Prepared                 | 03/06/24 11:51  Analyzed                 |        |
| Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                             | <50.5  — %Recovery 123 139              | U Qualifier S1+ | 50.5  Limits  70 - 130  70 - 130 |                            |          | 03/05/24 16:53  Prepared  03/05/24 16:53 | 03/06/24 11:51  Analyzed  03/06/24 11:51 | Dil Fa |
| Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate  1-Chlorooctane o-Terphenyl | <50.5  **Recovery 123 139  Chromatograp | U Qualifier S1+ | 50.5  Limits  70 - 130  70 - 130 |                            | D        | 03/05/24 16:53  Prepared  03/05/24 16:53 | 03/06/24 11:51  Analyzed  03/06/24 11:51 | Dil Fa |

Client: Vertex

Job ID: 890-6296-1

SDG: 23E-05219

Lab Sample ID: 890-6296-13

Matrix: Solid

Client Sample ID: BH24-15 2

Project/Site: Mis Amigos tank battery

Date Collected: 02/28/24 10:40 Date Received: 03/01/24 09:16

| Analyte                           | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene                           | <0.00200       | U *1        | 0.00200  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 18:09 | 1       |
| Toluene                           | <0.00200       | U *1        | 0.00200  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 18:09 | 1       |
| Ethylbenzene                      | <0.00200       | U           | 0.00200  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 18:09 | 1       |
| m-Xylene & p-Xylene               | <0.00399       | U           | 0.00399  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 18:09 | 1       |
| o-Xylene                          | <0.00200       | U           | 0.00200  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 18:09 | 1       |
| Xylenes, Total                    | <0.00399       | U           | 0.00399  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 18:09 | 1       |
| Surrogate                         | %Recovery      | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)       | 108            |             | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 18:09 | 1       |
| 1,4-Difluorobenzene (Surr)        | 113            |             | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 18:09 | 1       |
| Method: TAL SOP Total BTEX - To   | otal BTEX Cald | culation    |          |       |   |                |                |         |
| Analyte                           | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total BTEX                        | <0.00399       | U           | 0.00399  | mg/Kg |   |                | 03/05/24 18:09 | 1       |
| Method: SW846 8015 NM - Diesel    | Range Organ    | ics (DRO) ( | GC)      |       |   |                |                |         |
| Analyte                           | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                         | <50.0          | U           | 50.0     | mg/Kg |   |                | 03/06/24 12:13 | 1       |
| Method: SW846 8015B NM - Dies     | el Range Orga  | nics (DRO)  | (GC)     |       |   |                |                |         |
| Analyte                           | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics           | <50.0          | U           | 50.0     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 12:13 | 1       |
| (GRO)-C6-C10                      |                |             |          |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.0          | U           | 50.0     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 12:13 | 1       |
| C10-C28)                          | .50.0          |             | 50.0     | 0.4   |   | 00/05/04 40 50 | 00/00/04 40 40 |         |
| Oll Range Organics (Over C28-C36) | <50.0          | U           | 50.0     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 12:13 | 1       |
| Surrogate                         | %Recovery      | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 136            | S1+         | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 12:13 | 1       |
| o-Terphenyl                       | 153            | S1+         | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 12:13 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp   | hy - Solubl | e        |       |   |                |                |         |
| Analyte                           |                | Qualifier   | RL       |       | D |                |                |         |

Client Sample ID: BH24-17 0

Lab Sample ID: 890-6296-14

Matrix: Solid

81.2

5.02

mg/Kg

Date Received: 03/01/24 09:16

Chloride

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U *1      | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 18:30 | 1       |
| Toluene                     | <0.00198  | U *1      | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 18:30 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 18:30 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 18:30 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 18:30 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 18:30 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 18:30 | 1       |
| 1.4-Difluorobenzene (Surr)  | 110       |           | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 18:30 | 1       |

**Eurofins Carlsbad** 

03/08/24 00:58

## **Client Sample Results**

Client: Vertex Job ID: 890-6296-1
Project/Site: Mis Amigos tank battery SDG: 23E-05219

Client Sample ID: BH24-17 0 Lab Sample ID: 890-6296-14

Date Collected: 02/28/24 10:55

Date Received: 03/01/24 09:16

Matrix: Solid

| Analyte                           | Result        | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Total BTEX                        | <0.00397      | U           | 0.00397  | mg/Kg |   |                | 03/05/24 18:30 | 1       |
| Method: SW846 8015 NM - Diese     | Range Organ   | ics (DRO) ( | GC)      |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                         | <49.8         | U           | 49.8     | mg/Kg |   |                | 03/06/24 12:34 | 1       |
| Method: SW846 8015B NM - Dies     | el Range Orga | nics (DRO)  | (GC)     |       |   |                |                |         |
| Analyte                           | Result        | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics           | <49.8         | U           | 49.8     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 12:34 | 1       |
| (GRO)-C6-C10                      |               |             |          |       |   |                |                |         |
| Diesel Range Organics (Over       | <49.8         | U           | 49.8     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 12:34 | 1       |
| C10-C28)                          |               |             |          |       |   |                |                |         |
| OII Range Organics (Over C28-C36) | <49.8         | U           | 49.8     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 12:34 | 1       |
| Surrogate                         | %Recovery     | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 127           |             | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 12:34 | 1       |
| o-Terphenyl                       | 143           | S1+         | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 12:34 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatograp  | hv - Solubl | e        |       |   |                |                |         |
| Analyte                           | • .           | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                          | 12000         |             | 99.6     | mg/Kg |   |                | 03/08/24 01:05 |         |

Client Sample ID: BH24-17 2 Lab Sample ID: 890-6296-15

Date Collected: 02/28/24 11:00 Date Received: 03/01/24 09:16

| Analyte  | Result  | Qualifier  | RL                                 | Unit                     | D        | Prepared          | Analyzed   | Dil Fac |
|--|---|--|------------------------------------|--------------------------|----------|-------------------|--|---------|
| Benzene  | <0.00200  | U *1   | 0.00200                            | mg/Kg                    |          | 03/04/24 14:32    | 03/05/24 18:50   | 1       |
| Toluene  | <0.00200  | U *1   | 0.00200                            | mg/Kg                    |          | 03/04/24 14:32    | 03/05/24 18:50   | 1       |
| Ethylbenzene   | <0.00200  | U  | 0.00200                            | mg/Kg                    |          | 03/04/24 14:32    | 03/05/24 18:50   | 1       |
| m-Xylene & p-Xylene  | <0.00400  | U  | 0.00400                            | mg/Kg                    |          | 03/04/24 14:32    | 03/05/24 18:50   | 1       |
| o-Xylene   | <0.00200  | U  | 0.00200                            | mg/Kg                    |          | 03/04/24 14:32    | 03/05/24 18:50   | 1       |
| Xylenes, Total   | <0.00400  | U  | 0.00400                            | mg/Kg                    |          | 03/04/24 14:32    | 03/05/24 18:50   | 1       |
| Surrogate  | %Recovery   | Qualifier  | Limits                             |                          |          | Prepared          | Analyzed   | Dil Fac |
| 4-Bromofluorobenzene (Surr)  |   |  | 70 - 130                           |                          |          | 03/04/24 14:32    | 03/05/24 18:50   | 1       |
| 1,4-Difluorobenzene (Surr)   | 110   |  | 70 - 130                           |                          |          | 03/04/24 14:32    | 03/05/24 18:50   | 1       |
| Method: TAL SOP Total BTEX   | - Total BTEX Cald   |  |                                    | l Imia                   |          |                   |  |         |
| Method: TAL SOP Total BTEX Analyte   | - Total BTEX Cald   | Qualifier  | RL                                 | Unit                     | <u>D</u> | Prepared          | Analyzed   | ·       |
| Method: TAL SOP Total BTEX Analyte Total BTEX  | - Total BTEX Cald<br>Result<br><0.00400   | <b>Qualifier</b><br>U  | RL 0.00400                         | Unit<br>mg/Kg            | <u>D</u> |                   |  |         |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die   | - Total BTEX Cald Result <0.00400 esel Range Organ                                      | Qualifier U  | RL 0.00400                         | mg/Kg                    |          | Prepared          | Analyzed 03/05/24 18:50                                    | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte   | - Total BTEX Calc<br>Result<br><0.00400<br>esel Range Organ<br>Result                   | Qualifier U ics (DRO) (Qualifier                             | RL 0.00400                         |                          | <u>D</u> |                   | Analyzed 03/05/24 18:50 Analyzed                           | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die   | - Total BTEX Cald Result <0.00400 esel Range Organ                                      | Qualifier U ics (DRO) (Qualifier                             | RL 0.00400                         | mg/Kg                    |          | Prepared          | Analyzed 03/05/24 18:50                                    | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte   | - Total BTEX Calc Result <0.00400 esel Range Organ Result <49.6                         | Qualifier U ics (DRO) ( Qualifier U                          | RL 0.00400 GC) RL 49.6             | mg/Kg                    |          | Prepared          | Analyzed 03/05/24 18:50 Analyzed                           | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH   | - Total BTEX Calc Result <0.00400 esel Range Organ Result <49.6 iesel Range Orga        | Qualifier U ics (DRO) ( Qualifier U                          | RL 0.00400 GC) RL 49.6             | mg/Kg                    |          | Prepared          | Analyzed 03/05/24 18:50 Analyzed                           | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D                                 | - Total BTEX Calc Result <0.00400 esel Range Organ Result <49.6 iesel Range Orga        | Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier   | RL 0.00400 GC) RL 49.6             | mg/Kg  Unit  mg/Kg       | <u>D</u> | Prepared Prepared | Analyzed 03/05/24 18:50  Analyzed 03/06/24 12:56           | Dil Fac |
| Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte Gasoline Range Organics | - Total BTEX Calc Result <0.00400 esel Range Organ Result <49.6 iesel Range Orga Result | Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier U | RL 0.00400  GC)  RL 49.6  (GC)  RL | mg/Kg  Unit  mg/Kg  Unit | <u>D</u> | Prepared Prepared | Analyzed 03/05/24 18:50  Analyzed 03/06/24 12:56  Analyzed | Dil Fa  |

**Eurofins Carlsbad** 

**Matrix: Solid** 

SDG: 23E-05219

Project/Site: Mis Amigos tank battery Client Sample ID: BH24-17 2

Client: Vertex

Lab Sample ID: 890-6296-15

Matrix: Solid

Date Collected: 02/28/24 11:00

Date Received: 03/01/24 09:16

| Method: SW846 8015B NM | - Diesel Range Organics (DRO) (GO | C) (Continued) |
|------------------------|-----------------------------------|----------------|
| Analyte                | Result Qualifier                  | RL             |

| Analyte                           | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oll Range Organics (Over C28-C36) | <49.6     | U         | 49.6     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 12:56 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 117       |           | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 12:56 | 1       |
| o-Terphenyl                       | 131       | S1+       | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 12:56 | 1       |

| Method: EPA 300.0 - Anions, Ion Cl | hromatograpl | hy - Soluble | •    |       |   |          |                |         |
|------------------------------------|--------------|--------------|------|-------|---|----------|----------------|---------|
| Analyte                            | Result       | Qualifier    | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                           | 371          |              | 25.1 | mg/Kg |   |          | 03/08/24 02:02 | 5       |

Client Sample ID: BH24-18 0

Lab Sample ID: 890-6296-16

Date Collected: 02/28/24 11:30 Matrix: Solid

| 2-t- Paraire de 02/04/04 00:46  |                   |             |          |       |   |                |                |         |
|---------------------------------|-------------------|-------------|----------|-------|---|----------------|----------------|---------|
| Date Received: 03/01/24 09:16   |                   |             |          |       |   |                |                |         |
| Method: SW846 8021B - Volat     | ile Organic Comp  | ounds (GC)  | )        |       |   |                |                |         |
| Analyte                         | Result            | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fa  |
| Benzene                         | <0.00198          | U *1        | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:11 | -       |
| Toluene                         | <0.00198          | U *1        | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:11 | ,       |
| Ethylbenzene                    | <0.00198          | U           | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:11 | ,       |
| m-Xylene & p-Xylene             | <0.00396          | U           | 0.00396  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:11 |         |
| o-Xylene                        | <0.00198          | U           | 0.00198  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:11 | ,       |
| Xylenes, Total                  | <0.00396          | U           | 0.00396  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:11 | ,       |
| Surrogate                       | %Recovery         | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fa  |
| 4-Bromofluorobenzene (Surr)     | 106               |             | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 19:11 |         |
| 1,4-Difluorobenzene (Surr)      | 113               |             | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 19:11 | 1       |
| -<br>Method: TAL SOP Total BTEX | - Total BTEX Cale | culation    |          |       |   |                |                |         |
| Analyte                         | Result            | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fa  |
| Total BTEX                      | <0.00396          | U           | 0.00396  | mg/Kg |   |                | 03/05/24 19:11 | 1       |
| <br>Method: SW846 8015 NM - Die | esel Range Organ  | ics (DRO) ( | GC)      |       |   |                |                |         |
| Analyte                         | Result            | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TDH                       | <10.6             | 11          | 40.6     | ma/Ka |   |                | 03/06/24 13:17 |         |

| Result        | Qualifier  | RL                 | Unit   | D  | Prepared       | Analyzed  | Dil Fac  |
|---------------|--|--------------------|--|--|----------------|---|--|
| <49.6         | U  | 49.6               | mg/Kg  |  |                | 03/06/24 13:17  | 1  |
| el Range Orga | nics (DRO)   | (GC)               |  |  |                |   |  |
| Result        | Qualifier  | RL                 | Unit   | D  | Prepared       | Analyzed  | Dil Fac  |
| <49.6         | U  | 49.6               | mg/Kg  |  | 03/05/24 16:53 | 03/06/24 13:17  | 1  |
|               |  |                    |  |  |                |   |  |
| <49.6         | U  | 49.6               | mg/Kg  |  | 03/05/24 16:53 | 03/06/24 13:17  | 1  |
|               |  |                    |  |  |                |   |  |
| <49.6         | U  | 49.6               | mg/Kg  |  | 03/05/24 16:53 | 03/06/24 13:17  | 1  |
| %Recovery     | Qualifier  | Limits             |  |  | Prepared       | Analyzed  | Dil Fac  |
| 122           |  | 70 - 130           |  |  | 03/05/24 16:53 | 03/06/24 13:17  | 1  |
| 134           | S1+  | 70 - 130           |  |  | 03/05/24 16:53 | 03/06/24 13:17  | 1  |
|               | <49.6 el Range Orga Result <49.6 <49.6 <49.6 %Recovery | Result   Qualifier | <49.6         El Range Organics (DRO) (GC)         Result       Qualifier       RL         <49.6 | <49.6 U       49.6 mg/Kg         Result Qualifier RL (49.6 U)       49.6 mg/Kg         <49.6 U | <49.6          | <49.6 U       49.6 mg/Kg         El Range Organics (DRO) (GC)         Result       Qualifier       RL       Unit       D       Prepared         <49.6 U | Result         Qualifier         RL         Unit         D         Prepared         Analyzed           <49.6 |

| Method: EPA 300.0 - Anions, Ion Ch | romatography - Soluble |      |       |   |          |                |         |
|------------------------------------|------------------------|------|-------|---|----------|----------------|---------|
| Analyte                            | Result Qualifier       | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                           | 234                    | 25.1 | mg/Kg |   |          | 03/08/24 02:24 | 5       |

Project/Site: Mis Amigos tank battery

Client: Vertex

Job ID: 890-6296-1

SDG: 23E-05219

Client Sample ID: BH24-18 2 Lab Sample ID: 890-6296-17 Date Collected: 02/28/24 11:45

Matrix: Solid

Date Received: 03/01/24 09:16

| Analyte                           | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene                           | <0.00202       | U *1        | 0.00202  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:31 | 1       |
| Toluene                           | < 0.00202      | U *1        | 0.00202  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:31 | 1       |
| Ethylbenzene                      | < 0.00202      | U           | 0.00202  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:31 | 1       |
| m-Xylene & p-Xylene               | <0.00403       | U           | 0.00403  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:31 | 1       |
| o-Xylene                          | < 0.00202      | U           | 0.00202  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:31 | 1       |
| Xylenes, Total                    | <0.00403       | U           | 0.00403  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:31 | 1       |
| Surrogate                         | %Recovery      | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)       | 104            |             | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 19:31 | 1       |
| 1,4-Difluorobenzene (Surr)        | 113            |             | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 19:31 | 1       |
| Method: TAL SOP Total BTEX - To   | otal BTEX Cald | culation    |          |       |   |                |                |         |
| Analyte                           | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total BTEX                        | <0.00403       | U           | 0.00403  | mg/Kg |   |                | 03/05/24 19:31 | 1       |
| Method: SW846 8015 NM - Diese     | Range Organ    | ics (DRO) ( | GC)      |       |   |                |                |         |
| Analyte                           |                | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Total TPH                         | <50.2          | U           | 50.2     | mg/Kg |   |                | 03/06/24 13:39 | 1       |
| Method: SW846 8015B NM - Dies     | el Range Orga  | nics (DRO)  | (GC)     |       |   |                |                |         |
| Analyte                           | Result         | Qualifier   | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics           | <50.2          | U           | 50.2     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 13:39 | 1       |
| (GRO)-C6-C10                      |                |             |          |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.2          | U           | 50.2     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 13:39 | 1       |
| C10-C28)                          |                |             |          |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <50.2          | U           | 50.2     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 13:39 | 1       |
| Surrogate                         | %Recovery      | Qualifier   | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 152            | S1+         | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 13:39 | 1       |
| o-Terphenyl                       | 169            | S1+         | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 13:39 | 1       |
| Method: EPA 300.0 - Anions, Ion   | Chromatogran   | hy - Solubl | e        |       |   |                |                |         |
|                                   | U 1            | •           |          |       |   |                |                |         |

Client Sample ID: BH24-19 0 Lab Sample ID: 890-6296-18 Date Collected: 02/28/24 12:00 **Matrix: Solid** 

356

25.3

mg/Kg

Date Received: 03/01/24 09:16

Chloride

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U *1      | 0.00201  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:52 | 1       |
| Toluene                     | <0.00201  | U *1      | 0.00201  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:52 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:52 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:52 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:52 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  | mg/Kg |   | 03/04/24 14:32 | 03/05/24 19:52 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 120       |           | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 19:52 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 |       |   | 03/04/24 14:32 | 03/05/24 19:52 | 1       |

**Eurofins Carlsbad** 

03/08/24 02:31

Client: Vertex

Job ID: 890-6296-1

SDG: 23E-05219

Lab Sample ID: 890-6296-18

Matrix: Solid

Client Sample ID: BH24-19 0

Project/Site: Mis Amigos tank battery

Date Collected: 02/28/24 12:00 Date Received: 03/01/24 09:16

| Method: TAL SOP Total BTEX - Tot | al BTEX Cald | culation  |         |       |   |          |                |         |
|----------------------------------|--------------|-----------|---------|-------|---|----------|----------------|---------|
| Analyte                          | Result       | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Total BTEX                       | <0.00402     | U         | 0.00402 | mg/Kg |   |          | 03/05/24 19:52 | 1       |
|                                  |              |           |         |       |   |          |                |         |

| Method: SW846 8015 NM - Diesel F | Range Organi | ics (DRO) (0 | GC)  |       |   |          |                |         |
|----------------------------------|--------------|--------------|------|-------|---|----------|----------------|---------|
| Analyte                          | Result       | Qualifier    | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Total TPH                        | <50.4        | U            | 50.4 | mg/Kg |   |          | 03/06/24 14:00 | 1       |

| Analyte                           | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fa |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|--------|
| Gasoline Range Organics           | <50.4     | U         | 50.4     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 14:00 |        |
| (GRO)-C6-C10                      |           |           |          |       |   |                |                |        |
| Diesel Range Organics (Over       | <50.4     | U         | 50.4     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 14:00 |        |
| C10-C28)                          |           |           |          |       |   |                |                |        |
| OII Range Organics (Over C28-C36) | <50.4     | U         | 50.4     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 14:00 |        |
| Surrogate                         | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fa |
| 1-Chlorooctane                    | 132       | S1+       | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 14:00 |        |
| o-Terphenyl                       | 141       | S1+       | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 14:00 |        |

| Method: EPA 300.0 - Anions, Ion Ch | romatograp | hy - Soluble |      |       |   |          |                |         |
|------------------------------------|------------|--------------|------|-------|---|----------|----------------|---------|
| Analyte                            | Result     | Qualifier    | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                           | 360        |              | 5.04 | mg/Kg |   |          | 03/08/24 02:38 | 1       |

Client Sample ID: BH24-19 2 Lab Sample ID: 890-6296-19 Date Collected: 02/29/24 12:15 **Matrix: Solid** 

| Date | Received: | 03/01/24 | 09:16 |
|------|-----------|----------|-------|
|------|-----------|----------|-------|

| Analyte  | Result   | Qualifier  | RL                       | Unit               | D        | Prepared                | Analyzed   | Dil Fac |
|--|--|--|--------------------------|--------------------|----------|-------------------------|--|---------|
| Benzene  | <0.00200   | U *1   | 0.00200                  | mg/Kg              |          | 03/04/24 14:32          | 03/05/24 20:12                                   |         |
| Toluene  | <0.00200   | U *1   | 0.00200                  | mg/Kg              |          | 03/04/24 14:32          | 03/05/24 20:12                                   |         |
| Ethylbenzene   | <0.00200   | U  | 0.00200                  | mg/Kg              |          | 03/04/24 14:32          | 03/05/24 20:12                                   | 1       |
| m-Xylene & p-Xylene  | <0.00401   | U  | 0.00401                  | mg/Kg              |          | 03/04/24 14:32          | 03/05/24 20:12                                   | 1       |
| o-Xylene   | <0.00200   | U  | 0.00200                  | mg/Kg              |          | 03/04/24 14:32          | 03/05/24 20:12                                   | 1       |
| Xylenes, Total   | <0.00401   | U  | 0.00401                  | mg/Kg              |          | 03/04/24 14:32          | 03/05/24 20:12                                   | ,       |
| Surrogate  | %Recovery  | Qualifier  | Limits                   |                    |          | Prepared                | Analyzed   | Dil Fa  |
| 4-Bromofluorobenzene (Surr)  |  |  | 70 - 130                 |                    |          | 03/04/24 14:32          | 03/05/24 20:12                                   | 1       |
|  |  |  |                          |                    |          |                         |  |         |
| 1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX -   |  |  | 70 <sub>-</sub> 130      | Unia               |          | 03/04/24 14:32          | 03/05/24 20:12                                   |         |
| Method: TAL SOP Total BTEX - Analyte   | Total BTEX Cald  | Qualifier  | 70 - 130  RL 0.00401     | Unit mg/Kg         | <u>D</u> | 03/04/24 14:32 Prepared | 03/05/24 20:12  Analyzed  03/05/24 20:12         | Dil Fac |
|  | Total BTEX Calc Result <0.00401  | <b>Qualifier</b><br>U                                      | RL 0.00401               |                    | <u>D</u> |                         | Analyzed   | Dil Fac |
| Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Diese   | Total BTEX Calc Result <0.00401 el Range Organ   | <b>Qualifier</b><br>U                                      | RL 0.00401               |                    | <u>D</u> |                         | Analyzed   | Dil Fac |
| Method: TAL SOP Total BTEX - Analyte Total BTEX  | Total BTEX Calc Result <0.00401 el Range Organ   | Qualifier U ics (DRO) (Qualifier                           | RL 0.00401               | mg/Kg              | =        | Prepared                | Analyzed 03/05/24 20:12                          | Dil Fac |
| Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Diese Analyte   | Total BTEX Calc Result <0.00401 el Range Organ Result <50.5  | Qualifier U ics (DRO) ( Qualifier U                        | RL 0.00401  GC)  RL 50.5 | mg/Kg              | =        | Prepared                | Analyzed 03/05/24 20:12 Analyzed                 | Dil Fac |
| Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH                                 | Total BTEX Calc Result <a href="#">Result</a> <a href="#">Result</a> <a href="#">Foot</a> <a href="#">Result</a> <a href="#">550.5</a> sel Range Organ | Qualifier U ics (DRO) ( Qualifier U                        | RL 0.00401  GC)  RL 50.5 | mg/Kg              | =        | Prepared                | Analyzed 03/05/24 20:12 Analyzed                 | Dil Fac |
| Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese | Total BTEX Calc Result <a href="#">Result</a> <a href="#">Result</a> <a href="#">Foot</a> <a href="#">Result</a> <a href="#">550.5</a> sel Range Organ | Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier | RL 0.00401  GC)  RL 50.5 | mg/Kg  Unit  mg/Kg |          | Prepared<br>Prepared    | Analyzed 03/05/24 20:12  Analyzed 03/06/24 14:22 | Dil Fac |

Client: Vertex Project/Site: Mis Amigos tank battery SDG: 23E-05219

Client Sample ID: BH24-19 2 Lab Sample ID: 890-6296-19

Date Collected: 02/29/24 12:15 Matrix: Solid Date Received: 03/01/24 09:16

| Analyte                           | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oll Range Organics (Over C28-C36) | <50.5     | U         | 50.5     | mg/Kg |   | 03/05/24 16:53 | 03/06/24 14:22 | 1       |
| Surrogate                         | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                    | 109       |           | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 14:22 | 1       |
| o-Terphenyl                       | 116       |           | 70 - 130 |       |   | 03/05/24 16:53 | 03/06/24 14:22 | 1       |

Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte 4.99 03/08/24 02:45 Chloride 140 mg/Kg

Lab Sample ID: 890-6296-20 Client Sample ID: BH24-20 0 Date Collected: 02/29/24 12:20 **Matrix: Solid** 

Date Received: 03/01/24 09:16

| Analyte  | Result   | Qualifier   | RL   | Unit                       | D        | Prepared   | Analyzed  | Dil Fa |
|--|--|---|--|----------------------------|----------|--|---|--------|
| Benzene  | <0.00199   | U *1  | 0.00199  | mg/Kg                      |          | 03/04/24 14:32   | 03/05/24 20:33  | -      |
| Toluene  | < 0.00199  | U *1  | 0.00199  | mg/Kg                      |          | 03/04/24 14:32   | 03/05/24 20:33  |        |
| Ethylbenzene   | < 0.00199  | U   | 0.00199  | mg/Kg                      |          | 03/04/24 14:32   | 03/05/24 20:33  |        |
| m-Xylene & p-Xylene  | <0.00398   | U   | 0.00398  | mg/Kg                      |          | 03/04/24 14:32   | 03/05/24 20:33  |        |
| o-Xylene   | <0.00199   | U   | 0.00199  | mg/Kg                      |          | 03/04/24 14:32   | 03/05/24 20:33  |        |
| Xylenes, Total   | <0.00398   | U   | 0.00398  | mg/Kg                      |          | 03/04/24 14:32   | 03/05/24 20:33  |        |
| Surrogate  | %Recovery  | Qualifier   | Limits   |                            |          | Prepared   | Analyzed  | Dil Fa |
| 4-Bromofluorobenzene (Surr)  | 109  |   | 70 - 130   |                            |          | 03/04/24 14:32   | 03/05/24 20:33  |        |
| 1,4-Difluorobenzene (Surr)   | 107  |   | 70 - 130   |                            |          | 03/04/24 14:32   | 03/05/24 20:33  |        |
| Method: TAL SOP Total BTEX - 1   | Total BTEX Cald                                  | culation  |  |                            |          |  |   |        |
| Analyte  | Result   | Qualifier   | RL   | Unit                       | D        | Prepared   | Analyzed  | Dil Fa |
| Total BTEX   | <0.00398   | U   | 0.00398  | mg/Kg                      |          |  | 03/05/24 20:33  |        |
| Method: SW846 8015 NM - Diese  |  |   | •  | IIia                       |          | Dogwood  | Anabasad  | D:: F- |
| Analyte  | Result   | Qualifier   | GC)  | Unit                       | <u>D</u> | Prepared   | Analyzed  | Dil Fa |
|  |  | Qualifier   | •  | <mark>Unit</mark><br>mg/Kg | <u>D</u> | Prepared   | Analyzed 03/06/24 14:44   |        |
| Analyte  | Result   <49.9                                   | Qualifier U   | RL 49.9  |                            | <u>D</u> | Prepared   |   |        |
| Analyte Total TPH  | Result <49.9                                     | Qualifier U   | RL 49.9  |                            | <u>D</u> | Prepared Prepared  |   |        |
| Analyte Total TPH  Method: SW846 8015B NM - Dies   | Result <49.9                                     | Qualifier Unics (DRO) Qualifier                           | RL 49.9  | mg/Kg                      |          | · · ·  | 03/06/24 14:44  | Dil Fa |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10  | Result <49.9  sel Range Orga Result <49.9        | Qualifier U  nics (DRO) Qualifier U                       | RL 49.9  (GC)  RL 49.9   | mg/Kg  Unit  mg/Kg         |          | Prepared 03/05/24 16:53  | 03/06/24 14:44  Analyzed  03/06/24 14:44  | Dil Fa |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result <49.9  sel Range Orga Result              | Qualifier U  nics (DRO) Qualifier U                       | RL 49.9 (GC)   | mg/Kg                      |          | Prepared   | 03/06/24 14:44  Analyzed  | Dil Fa |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)   | Result <49.9  sel Range Orga Result <49.9  <49.9 | Qualifier U  nics (DRO) Qualifier U                       | RL 49.9  (GC)  RL 49.9  49.9   | mg/Kg  Unit  mg/Kg  mg/Kg  |          | Prepared 03/05/24 16:53 03/05/24 16:53   | 03/06/24 14:44  Analyzed 03/06/24 14:44  03/06/24 14:44                           | Dil Fa |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result <49.9  sel Range Orga Result <49.9        | Qualifier U  nics (DRO) Qualifier U                       | RL 49.9  (GC)  RL 49.9   | mg/Kg  Unit  mg/Kg         |          | Prepared 03/05/24 16:53  | 03/06/24 14:44  Analyzed  03/06/24 14:44  | Dil Fa |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)   | Result <49.9  sel Range Orga Result <49.9  <49.9 | Qualifier U  nics (DRO) Qualifier U  U                    | RL 49.9  (GC)  RL 49.9  49.9   | mg/Kg  Unit  mg/Kg  mg/Kg  |          | Prepared 03/05/24 16:53 03/05/24 16:53   | 03/06/24 14:44  Analyzed 03/06/24 14:44  03/06/24 14:44                           | Dil Fa |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)                                       | Result   | Qualifier U  nics (DRO) Qualifier U  U                    | RL<br>49.9<br>(GC)<br>RL<br>49.9<br>49.9   | mg/Kg  Unit  mg/Kg  mg/Kg  |          | Prepared 03/05/24 16:53 03/05/24 16:53   | 03/06/24 14:44  Analyzed 03/06/24 14:44  03/06/24 14:44                           | Dil Fa |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                            | Result   <49.9                                   | Qualifier U  nics (DRO) Qualifier U  U  Qualifier         | RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits   | mg/Kg  Unit  mg/Kg  mg/Kg  |          | Prepared 03/05/24 16:53 03/05/24 16:53 03/05/24 16:53 Prepared                 | 03/06/24 14:44  Analyzed 03/06/24 14:44  03/06/24 14:44  Analyzed                 | Dil Fa |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane             | Result   <49.9                                   | Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+ S1+ | RL<br>49.9<br>(GC)<br>RL<br>49.9<br>49.9<br>49.9<br>Limits<br>70 - 130<br>70 - 130 | mg/Kg  Unit  mg/Kg  mg/Kg  |          | Prepared 03/05/24 16:53 03/05/24 16:53 03/05/24 16:53  Prepared 03/05/24 16:53 | 03/06/24 14:44  Analyzed 03/06/24 14:44  03/06/24 14:44  Analyzed  03/06/24 14:44 | Dil Fa |
| Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl | Result   <49.9                                   | Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+ S1+ | RL<br>49.9<br>(GC)<br>RL<br>49.9<br>49.9<br>49.9<br>Limits<br>70 - 130<br>70 - 130 | mg/Kg  Unit  mg/Kg  mg/Kg  |          | Prepared 03/05/24 16:53 03/05/24 16:53 03/05/24 16:53  Prepared 03/05/24 16:53 | 03/06/24 14:44  Analyzed 03/06/24 14:44  03/06/24 14:44  Analyzed  03/06/24 14:44 | Dil Fa |

Date Received: 03/01/24 09:16

## **Client Sample Results**

Client: Vertex Job ID: 890-6296-1 Project/Site: Mis Amigos tank battery SDG: 23E-05219

Client Sample ID: BH24-20 2 Lab Sample ID: 890-6296-21 Date Collected: 02/29/24 12:30

Matrix: Solid

| Analyte   | Result   | Qualifier  | RL                                      | Unit                          | D        | Prepared   | Analyzed  | Dil Fac |
|---|--|--|---|-------------------------------|----------|--|---|---------|
| Benzene   | <0.00200   | U *+   | 0.00200                                 | mg/Kg                         |          | 03/05/24 13:30   | 03/06/24 03:34  |         |
| Toluene   | <0.00200   | U  | 0.00200                                 | mg/Kg                         |          | 03/05/24 13:30   | 03/06/24 03:34  | 1       |
| Ethylbenzene  | <0.00200   | U  | 0.00200                                 | mg/Kg                         |          | 03/05/24 13:30   | 03/06/24 03:34  | 1       |
| m-Xylene & p-Xylene   | <0.00400   | U  | 0.00400                                 | mg/Kg                         |          | 03/05/24 13:30   | 03/06/24 03:34  | 1       |
| o-Xylene  | <0.00200   | U  | 0.00200                                 | mg/Kg                         |          | 03/05/24 13:30   | 03/06/24 03:34  | 1       |
| Xylenes, Total  | <0.00400   | U  | 0.00400                                 | mg/Kg                         |          | 03/05/24 13:30   | 03/06/24 03:34  | ,       |
| Surrogate   | %Recovery  | Qualifier  | Limits                                  |                               |          | Prepared   | Analyzed  | Dil Fa  |
| 4-Bromofluorobenzene (Surr)   | 102  |  | 70 - 130                                |                               |          | 03/05/24 13:30   | 03/06/24 03:34  | 1       |
| 1,4-Difluorobenzene (Surr)  | 109  |  | 70 - 130                                |                               |          | 03/05/24 13:30   | 03/06/24 03:34  | 1       |
| Method: TAL SOP Total BTEX - T  | otal BTEX Cald   | culation   |   |                               |          |  |   |         |
| Analyte   | Result   | Qualifier  | RL                                      | Unit                          | D        | Prepared   | Analyzed  | Dil Fac |
| , <b></b> .,  |  |  |   |                               |          |  |   |         |
| Total BTEX  | <0.00400   | U  | 0.00400                                 | mg/Kg                         |          |  | 03/06/24 03:34  | 1       |
|   |  |  |   | mg/Kg                         |          |  | 03/06/24 03:34  | 1       |
| Total BTEX  Method: SW846 8015 NM - Diese   | l Range Organ  |  |   | mg/Kg Unit                    | D        | Prepared   | 03/06/24 03:34  Analyzed  |         |
| Total BTEX  | l Range Organ  | ics (DRO) (  | GC)                                     |                               | <u>D</u> | Prepared   |   | Dil Fac |
| Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH  | Range Organ Result <a href="#">&lt;49.7</a>                              | ics (DRO) (Gualifier   | <b>GC)</b>                              | Unit                          | <u>D</u> | Prepared   | Analyzed  | Dil Fac |
| Total BTEX  Method: SW846 8015 NM - Diese  Analyte  Total TPH  Method: SW846 8015B NM - Dies  | Range Organ Result <a href="#">&lt;49.7</a> sel Range Organ              | ics (DRO) (Gualifier   | <b>GC)</b>                              | Unit                          | D        | Prepared Prepared  | Analyzed  | Dil Fac |
| Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics   | Range Organ Result <a href="#">&lt;49.7</a> sel Range Organ              | Qualifier Unics (DRO) Qualifier  | RL 49.7                                 | Unit mg/Kg                    |          |  | Analyzed 03/06/24 15:27   | Dil Fac |
| Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10  | Range Organ Result <a href="#">&lt;49.7</a> sel Range Organ Result       | ics (DRO) ( Qualifier U  unics (DRO) Qualifier U   | GC)  RL  49.7  (GC)  RL                 | Unit mg/Kg                    |          | Prepared   | Analyzed 03/06/24 15:27   | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result sel Range Organ Result <49.7 sel Range Organ Result <49.7         | ics (DRO) ( Qualifier U  unics (DRO) Qualifier U   | GC)  RL 49.7  (GC)  RL 49.7             | Unit mg/Kg  Unit mg/Kg        |          | Prepared 03/05/24 16:53  | Analyzed 03/06/24 15:27  Analyzed 03/06/24 15:27  | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)                                   | Result sel Range Organ Result <49.7 sel Range Organ Result <49.7         | ics (DRO) (Control of the Control of | GC)  RL 49.7  (GC)  RL 49.7             | Unit mg/Kg  Unit mg/Kg        |          | Prepared 03/05/24 16:53  | Analyzed 03/06/24 15:27  Analyzed 03/06/24 15:27  | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result 49.7 sel Range Organ Result <49.7 <49.7 <49.7 <49.7 %Recovery     | ics (DRO) (Control of the Control of | GC)  RL 49.7  (GC)  RL 49.7  49.7       | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 03/05/24 16:53 03/05/24 16:53 03/05/24 16:53 Prepared | Analyzed 03/06/24 15:27  Analyzed 03/06/24 15:27 03/06/24 15:27 03/06/24 15:27 Analyzed | Dil Fac |
| Total BTEX  Method: SW846 8015 NM - Diese Analyte   | Result Sel Range Organ Result 49.7 Sel Range Organ Result 49.7 49.7 49.7 | ics (DRO) (Control of the Control of | GC)  RL 49.7  (GC)  RL 49.7  49.7  49.7 | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 03/05/24 16:53 03/05/24 16:53                         | Analyzed 03/06/24 15:27  Analyzed 03/06/24 15:27 03/06/24 15:27                         | Dil Fac |

RL

4.98

Unit

mg/Kg

D

Prepared

Result Qualifier

253

Dil Fac

Analyzed 03/08/24 03:14

Analyte

Chloride

# **Surrogate Summary**

Client: Vertex Job ID: 890-6296-1
Project/Site: Mis Amigos tank battery SDG: 23E-05219

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

|                     |                        | BFB1     | DFBZ1    | Percent Surrogate Recovery (Acceptance Limits) |
|---------------------|------------------------|----------|----------|--|
| Lab Sample ID       | Client Sample ID       | (70-130) | (70-130) |  |
| 880-40191-A-1-C MS  | Matrix Spike           | 94       | 100      |  |
| 880-40191-A-1-D MSD | Matrix Spike Duplicate | 101      | 101      |  |
| 890-6296-1          | BH24-09 0              | 85       | 103      |  |
| 890-6296-1 MS       | BH24-09 0              | 97       | 113      |  |
| 890-6296-1 MSD      | BH24-09 0              | 107      | 101      |  |
| 890-6296-2          | BH24-09 2              | 103      | 110      |  |
| 890-6296-3          | BH24-11 0              | 105      | 107      |  |
| 890-6296-4          | BH24-11 2              | 108      | 114      |  |
| 890-6296-5          | BH24-12 0              | 107      | 103      |  |
| 890-6296-6          | BH24-12 4              | 106      | 109      |  |
| 890-6296-7          | BH24-12 8              | 111      | 105      |  |
| 890-6296-8          | BH24-13 0              | 112      | 113      |  |
| 890-6296-9          | BH24-13 2              | 107      | 108      |  |
| 890-6296-10         | BH24-14 0              | 111      | 109      |  |
| 890-6296-11         | BH24-14 2              | 84       | 105      |  |
| 890-6296-12         | BH24-15 0              | 110      | 115      |  |
| 390-6296-13         | BH24-15 2              | 108      | 113      |  |
| 890-6296-14         | BH24-17 0              | 105      | 110      |  |
| 890-6296-15         | BH24-17 2              | 111      | 110      |  |
| 890-6296-16         | BH24-18 0              | 106      | 113      |  |
| 390-6296-17         | BH24-18 2              | 104      | 113      |  |
| 890-6296-18         | BH24-19 0              | 120      | 102      |  |
| 890-6296-19         | BH24-19 2              | 116      | 104      |  |
| 890-6296-20         | BH24-20 0              | 109      | 107      |  |
| 890-6296-21         | BH24-20 2              | 102      | 109      |  |
| LCS 880-74676/1-A   | Lab Control Sample     | 80       | 108      |  |
| LCS 880-74689/1-A   | Lab Control Sample     | 94       | 104      |  |
| LCSD 880-74676/2-A  | Lab Control Sample Dup | 103      | 105      |  |
| LCSD 880-74689/2-A  | Lab Control Sample Dup | 105      | 99       |  |
| MB 880-74652/5-A    | Method Blank           | 77       | 98       |  |
| MB 880-74676/5-A    | Method Blank           | 129      | 123      |  |
| MB 880-74689/5-A    | Method Blank           | 78       | 98       |  |

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

| <del>-</del>       |                        |          |          |
|--------------------|------------------------|----------|----------|
|                    |                        | 1CO1     | OTPH1    |
| Lab Sample ID      | Client Sample ID       | (70-130) | (70-130) |
| 890-6289-A-1-D MS  | Matrix Spike           | 126      | 128      |
| 890-6289-A-1-E MSD | Matrix Spike Duplicate | 118      | 120      |
| 890-6296-1         | BH24-09 0              | 121      | 129      |
| 890-6296-2         | BH24-09 2              | 107      | 113      |
| 890-6296-3         | BH24-11 0              | 115      | 119      |
| 890-6296-4         | BH24-11 2              | 129      | 139 S1+  |
| 890-6296-5         | BH24-12 0              | 134 S1+  | 145 S1+  |

# **Surrogate Summary**

Client: Vertex Job ID: 890-6296-1
Project/Site: Mis Amigos tank battery SDG: 23E-05219

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

Matrix: Solid Prep Type: Total/NA

|                                |                        |          |          | Percent Surrogate Recovery (Acceptance L   |
|--------------------------------|------------------------|----------|----------|--|
|                                |                        | 1001     | ОТРН1    | rescent Surrogate Recovery (Acceptance Lin |
| Lab Sample ID                  | Client Sample ID       | (70-130) | (70-130) |  |
| 390-6296-6                     | BH24-12 4              | 113      | 122      |  |
| 90-6296-7                      | BH24-12 8              | 124      | 134 S1+  |  |
| 390-6296-8                     | BH24-13 0              | 151 S1+  | 165 S1+  |  |
| 390-6296-9                     | BH24-13 2              | 122      | 109      |  |
| 90-6296-9 MS                   | BH24-13 2              | 117      | 98       |  |
| 90-6296-9 MSD                  | BH24-13 2              | 116      | 99       |  |
| 90-6296-10                     | BH24-14 0              | 58 S1-   | 51 S1-   |  |
| 90-6296-11                     | BH24-14 2              | 149 S1+  | 169 S1+  |  |
| 90-6296-11 MS                  | BH24-14 2              | 129      | 135 S1+  |  |
| 90-6296-11 MSD                 | BH24-14 2              | 128      | 132 S1+  |  |
| 90-6296-12                     | BH24-15 0              | 123      | 139 S1+  |  |
| 90-6296-13                     | BH24-15 2              | 136 S1+  | 153 S1+  |  |
| 90-6296-14                     | BH24-17 0              | 127      | 143 S1+  |  |
| 90-6296-15                     | BH24-17 2              | 117      | 131 S1+  |  |
| 90-6296-16                     | BH24-18 0              | 122      | 134 S1+  |  |
| 90-6296-17                     | BH24-18 2              | 152 S1+  | 169 S1+  |  |
| 90-6296-18                     | BH24-19 0              | 132 S1+  | 141 S1+  |  |
| 0-6296-19                      | BH24-19 2              | 109      | 116      |  |
| 90-6296-20                     | BH24-20 0              | 147 S1+  | 158 S1+  |  |
| 90-6296-21                     | BH24-20 2              | 119      | 128      |  |
| CS 880-74822/2-A               | Lab Control Sample     | 102      | 133 S1+  |  |
| CS 880-74834/2-A               | Lab Control Sample     | 97       | 102      |  |
| CS 880-74838/2-A               | Lab Control Sample     | 108      | 117      |  |
| CSD 880-74822/3-A              | Lab Control Sample Dup | 95       | 118      |  |
| CSD 880-74834/3-A              | Lab Control Sample Dup | 90       | 95       |  |
| .CSD 880-74838/3-A             | Lab Control Sample Dup | 103      | 102      |  |
| IB 880-74822/1-A               | Method Blank           | 132 S1+  | 146 S1+  |  |
| 1B 880-74834/1-A               | Method Blank           | 132 31+  | 139 S1+  |  |
| /IB 880-74838/1-A              | Method Blank           | 38 S1-   | 29 S1-   |  |
| 11 000-1 <del>1</del> 000/1-74 | Method Dialik          | 30 31-   | 2001-    |  |
| Surrogate Legend               |                        |          |          |  |
| 100 1011                       |                        |          |          |  |

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Vertex Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1

SDG: 23E-05219

Prep Type: Total/NA

Client Sample ID: Method Blank

Analyzed

03/05/24 11:33

03/05/24 11:33

03/05/24 12:04

Dil Fac

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74652/5-A

**Matrix: Solid** 

Surrogate

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

| Analysis Batch: 74750 |          |           |         |       |   |                | Prep Batch: 74652 |         |
|-----------------------|----------|-----------|---------|-------|---|----------------|-------------------|---------|
|                       | MB       | MB        |         |       |   |                |                   |         |
| Analyte               | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed          | Dil Fac |
| Benzene               | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/04/24 13:22 | 03/05/24 11:33    | 1       |
| Toluene               | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/04/24 13:22 | 03/05/24 11:33    | 1       |
| Ethylbenzene          | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/04/24 13:22 | 03/05/24 11:33    | 1       |
| m-Xylene & p-Xylene   | <0.00400 | U         | 0.00400 | mg/Kg |   | 03/04/24 13:22 | 03/05/24 11:33    | 1       |
| o-Xylene              | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/04/24 13:22 | 03/05/24 11:33    | 1       |
| Xylenes, Total        | <0.00400 | U         | 0.00400 | mg/Kg |   | 03/04/24 13:22 | 03/05/24 11:33    | 1       |

Limits

70 - 130

70 - 130

1,4-Difluorobenzene (Surr)

Lab Sample ID: MB 880-74676/5-A **Matrix: Solid** 

**Analysis Batch: 74575** 

4-Bromofluorobenzene (Surr)

|      | Client Sample ID: Method Blank |
|------|--------------------------------|
|      | Prep Type: Total/NA            |
|      | Prep Batch: 74676              |
| D MD |                                |

mg/Kg

MB MB Result Qualifier RL Unit Prepared Analyzed Dil Fac <0.00200 U 0.00200 mg/Kg 03/04/24 14:32 03/05/24 12:04 <0.00200 U 0.00200 mg/Kg 03/04/24 14:32 03/05/24 12:04 <0.00200 U 0.00200 03/04/24 14:32 03/05/24 12:04 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 03/04/24 14:32 03/05/24 12:04 <0.00200 U 0.00200 mg/Kg 03/04/24 14:32 03/05/24 12:04

MB MB

<0.00400 U

MB MB Qualifier

77 98

%Recovery

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared      | Analyzed         | Dil Fac |
|-----------------------------|-----------|-----------|----------|---------------|------------------|---------|
| 4-Bromofluorobenzene (Surr) | 129       |           | 70 - 130 | 03/04/24 14:3 | 2 03/05/24 12:04 | 1       |
| 1,4-Difluorobenzene (Surr)  | 123       |           | 70 - 130 | 03/04/24 14:3 | 2 03/05/24 12:04 | 1       |

0.00400

Lab Sample ID: LCS 880-74676/1-A

**Matrix: Solid** 

**Analysis Batch: 74575** 

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 74676

Client Sample ID: Lab Control Sample Dup

03/04/24 14:32

Prepared

03/04/24 13:22

03/04/24 13:22

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1072 mg/Kg 107 70 - 130 Toluene 0.100 0.09951 mg/Kg 100 70 - 130 Ethylbenzene 0.100 0.08508 mg/Kg 85 70 - 130 m-Xylene & p-Xylene 0.200 0.1669 mg/Kg 83 70 - 130 70 - 130 0.100 0.08374 o-Xylene mg/Kg 84

| Surrogate                   | %Recovery Quality | fier Limits |
|-----------------------------|-------------------|-------------|
| 4-Bromofluorobenzene (Surr) | 80                | 70 - 130    |
| 1,4-Difluorobenzene (Surr)  | 108               | 70 - 130    |

Lab Sample ID: LCSD 880-74676/2-A

| Matrix: Solid         |       |        |             |        |      |          | Type: To | tal/NA |
|-----------------------|-------|--------|-------------|--------|------|----------|----------|--------|
| Analysis Batch: 74575 |       |        |             |        |      |          |          | 74676  |
|                       | Spike | LCSD   | LCSD        |        |      | %Rec     |          | RPD    |
| Analyte               | Added | Result | Qualifier U | lnit D | %Rec | Limits   | RPD      | Limit  |
| Benzene               | 0.100 | 0.1187 |             | ng/Kg  | 119  | 70 - 130 | 10       | 35     |

### QC Sample Results

Client: Vertex Job ID: 890-6296-1 Project/Site: Mis Amigos tank battery SDG: 23E-05219

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

Lab Sample ID: LCSD 880-74676/2-A

**Matrix: Solid Analysis Batch: 74575**  Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74676

|                     | Spike | LCSD   | LCSD      |       |   |      | %Rec     |     | RPD   |
|---------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte             | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Toluene             | 0.100 | 0.1005 |           | mg/Kg |   | 101  | 70 - 130 | 1   | 35    |
| Ethylbenzene        | 0.100 | 0.1114 |           | mg/Kg |   | 111  | 70 - 130 | 27  | 35    |
| m-Xylene & p-Xylene | 0.200 | 0.2049 |           | mg/Kg |   | 102  | 70 - 130 | 20  | 35    |
| o-Xylene            | 0.100 | 0.1108 |           | mg/Kg |   | 111  | 70 - 130 | 28  | 35    |
|                     |       |        |           |       |   |      |          |     |       |

LCSD LCSD

| Surrogate                   | %Recovery ( | Qualifier | Limits   |
|-----------------------------|-------------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 103         |           | 70 _ 130 |
| 1,4-Difluorobenzene (Surr)  | 105         |           | 70 - 130 |

Lab Sample ID: 890-6296-1 MS Client Sample ID: BH24-09 0

Prep Type: Total/NA

**Matrix: Solid Analysis Batch: 74575** Prep Batch: 74676 Spike MS MS %Rec Sample Sample

Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.00199 U F1 \*1 0.101 0.1341 F1 133 70 - 130 mg/Kg Toluene <0.00199 U F1 \*1 0.101 0.1316 F1 mg/Kg 131 70 - 130 Ethylbenzene <0.00199 UF1 0.101 0.1331 F1 mg/Kg 132 70 - 130 0.202 m-Xylene & p-Xylene <0.00398 UF1 0.2848 F1 141 70 - 130 mg/Kg o-Xylene <0.00199 U 0.101 0.09703 mg/Kg 70 - 130

MS MS

| Surrogate                   | %Recovery Qualifier | Limits   |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 97                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 113                 | 70 - 130 |

Lab Sample ID: 890-6296-1 MSD Client Sample ID: BH24-09 0

**Matrix: Solid** 

**Analysis Batch: 74575** 

Prep Type: Total/NA

Prep Batch: 74676

| _                   | Sample   | Sample    | Spike | MSD    | MSD       |       |   |      | %Rec     |     | RPD   |
|---------------------|----------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte             | Result   | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Benzene             | <0.00199 | U F1 *1   | 0.100 | 0.1215 |           | mg/Kg |   | 121  | 70 - 130 | 10  | 35    |
| Toluene             | <0.00199 | U F1 *1   | 0.100 | 0.1059 |           | mg/Kg |   | 105  | 70 - 130 | 22  | 35    |
| Ethylbenzene        | <0.00199 | U F1      | 0.100 | 0.1171 |           | mg/Kg |   | 117  | 70 - 130 | 13  | 35    |
| m-Xylene & p-Xylene | <0.00398 | U F1      | 0.201 | 0.2416 |           | mg/Kg |   | 120  | 70 - 130 | 16  | 35    |
| o-Xylene            | <0.00199 | U         | 0.100 | 0.1151 |           | mg/Kg |   | 115  | 70 - 130 | 17  | 35    |

MSD MSD

| Surrogate                   | %Recovery Qual | ifier Limits |
|-----------------------------|----------------|--------------|
| 4-Bromofluorobenzene (Surr) | 107            | 70 - 130     |
| 1,4-Difluorobenzene (Surr)  | 101            | 70 - 130     |

Lab Sample ID: MB 880-74689/5-A

**Matrix: Solid** 

**Analysis Batch: 74750** 

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 74689

мв мв

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg | _ | 03/04/24 15:22 | 03/05/24 22:18 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/04/24 15:22 | 03/05/24 22:18 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/04/24 15:22 | 03/05/24 22:18 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 03/04/24 15:22 | 03/05/24 22:18 | 1       |

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Page 26 of 54

Client: Vertex

Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1

SDG: 23E-05219

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

Lab Sample ID: MB 880-74689/5-A

**Matrix: Solid** 

Analysis Batch: 74750

Prep Type: Total/NA

Prep Batch: 74689

|                | IND      |           |         |       |   |                |                |         |
|----------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte        | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| o-Xylene       | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/04/24 15:22 | 03/05/24 22:18 | 1       |
| Xylenes, Total | <0.00400 | U         | 0.00400 | mg/Kg |   | 03/04/24 15:22 | 03/05/24 22:18 | 1       |

MR MR

MR MR

| Surrogate                   | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|---------------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 78                  | 70 - 130 | 03/04/24 15:22 | 03/05/24 22:18 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98                  | 70 - 130 | 03/04/24 15:22 | 03/05/24 22:18 | 1       |

**Client Sample ID: Lab Control Sample** 

Lab Sample ID: LCS 880-74689/1-A

Lab Sample ID: LCSD 880-74689/2-A

**Matrix: Solid** 

**Analysis Batch: 74750** 

**Matrix: Solid** Prep Type: Total/NA

Prep Batch: 74689

|                     | <b>Бріке</b> | LUS    | LUS       |       |   |      | %Rec     |  |
|---------------------|--------------|--------|-----------|-------|---|------|----------|--|
| Analyte             | Added        | Result | Qualifier | Unit  | D | %Rec | Limits   |  |
| Benzene             | 0.100        | 0.1404 | *+        | mg/Kg |   | 140  | 70 - 130 |  |
| Toluene             | 0.100        | 0.1078 |           | mg/Kg |   | 108  | 70 - 130 |  |
| Ethylbenzene        | 0.100        | 0.1083 |           | mg/Kg |   | 108  | 70 - 130 |  |
| m-Xylene & p-Xylene | 0.200        | 0.2137 |           | mg/Kg |   | 107  | 70 - 130 |  |
| o-Xylene            | 0.100        | 0.1036 |           | mg/Kg |   | 104  | 70 - 130 |  |
|                     |              |        |           |       |   |      |          |  |

LCS LCS

| Surrogate                   | %Recovery Qualifier | Limits   |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 94                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104                 | 70 - 130 |

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Prep Batch: 74689 **Analysis Batch: 74750** 

|                     | Spike | LCSD   | LCSD      |       |   |      | %Rec     |     | RPD   |
|---------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte             | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Benzene             | 0.100 | 0.1235 |           | mg/Kg |   | 123  | 70 - 130 | 13  | 35    |
| Toluene             | 0.100 | 0.1105 |           | mg/Kg |   | 111  | 70 - 130 | 2   | 35    |
| Ethylbenzene        | 0.100 | 0.1170 |           | mg/Kg |   | 117  | 70 - 130 | 8   | 35    |
| m-Xylene & p-Xylene | 0.200 | 0.2376 |           | mg/Kg |   | 119  | 70 - 130 | 11  | 35    |
| o-Xylene            | 0.100 | 0.1159 |           | mg/Kg |   | 116  | 70 - 130 | 11  | 35    |
|                     |       |        |           |       |   |      |          |     |       |

LCSD LCSD

| Surrogate                   | %Recovery Qu | alifier | Limits   |  |  |
|-----------------------------|--------------|---------|----------|--|--|
| 4-Bromofluorobenzene (Surr) | 105          |         | 70 - 130 |  |  |
| 1.4-Difluorobenzene (Surr)  | 99           |         | 70 - 130 |  |  |

Lab Sample ID: 880-40191-A-1-C MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

Analysis Batch: 74750

Prep Type: Total/NA Prep Batch: 74689

Spike MS MS %Rec Sample Sample Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits 0.101 0.07447 74 70 - 130 Benzene <0.00199 U\*+ mg/Kg Toluene <0.00199 UF1 0.101 0.05837 F1 mg/Kg 58 70 - 130 0.101 Ethylbenzene <0.00199 UF1 0.06249 F1 mg/Kg 62 70 - 130 m-Xylene & p-Xylene <0.00398 UF1 0.202 0.1174 F1 mg/Kg 58 70 - 130 o-Xylene <0.00199 UF1 0.101 0.06176 F1 mg/Kg 61 70 - 130

Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1

SDG: 23E-05219

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

Lab Sample ID: 880-40191-A-1-C MS

**Matrix: Solid** 

Analysis Batch: 74750

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 74689

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 94 70 - 130 1,4-Difluorobenzene (Surr) 100 70 - 130

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 880-40191-A-1-D MSD Prep Type: Total/NA **Matrix: Solid** Analysis Batch: 74750 Prep Batch: 74689

| -                   | Sample   | Sample    | Spike | MSD     | MSD       |       |   |      | %Rec     |     | RPD   |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte             | Result   | Qualifier | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Benzene             | <0.00199 | U *+      | 0.100 | 0.08270 |           | mg/Kg |   | 83   | 70 - 130 | 10  | 35    |
| Toluene             | <0.00199 | U F1      | 0.100 | 0.06391 | F1        | mg/Kg |   | 64   | 70 - 130 | 9   | 35    |
| Ethylbenzene        | <0.00199 | U F1      | 0.100 | 0.06490 | F1        | mg/Kg |   | 65   | 70 - 130 | 4   | 35    |
| m-Xylene & p-Xylene | <0.00398 | U F1      | 0.200 | 0.1212  | F1        | mg/Kg |   | 61   | 70 - 130 | 3   | 35    |
| o-Xylene            | <0.00199 | U F1      | 0.100 | 0.06397 | F1        | mg/Kg |   | 64   | 70 - 130 | 4   | 35    |
|                     |          |           |       |         |           |       |   |      |          |     |       |

MSD MSD

| Surrogate                   | %Recovery Qualifier | Limits   |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 101                 | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101                 | 70 - 130 |

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

Lab Sample ID: MB 880-74822/1-A

**Matrix: Solid** 

**Analysis Batch: 74778** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74822

|   | MB     | MB        |      |       |   |                |                |         |
|---|--------|-----------|------|-------|---|----------------|----------------|---------|
| Analyte                                 | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 03/05/24 14:08 | 03/05/24 21:07 | 1       |
| Diesel Range Organics (Over C10-C28)    | <50.0  | U         | 50.0 | mg/Kg |   | 03/05/24 14:08 | 03/05/24 21:07 | 1       |
| Oll Range Organics (Over C28-C36)       | <50.0  | U         | 50.0 | mg/Kg |   | 03/05/24 14:08 | 03/05/24 21:07 | 1       |

|                | MB        | МВ        |          |                |                |         |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane | 132       | S1+       | 70 - 130 | 03/05/24 14:08 | 03/05/24 21:07 | 1       |
| o-Terphenvl    | 146       | S1+       | 70 - 130 | 03/05/24 14:08 | 03/05/24 21:07 | 1       |

Lab Sample ID: LCS 880-74822/2-A

**Matrix: Solid** 

**Analysis Batch: 74778** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74822

|                             | Spike | LCS    | LCS       |       |   |      | %Rec     |  |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte                     | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |  |
| Gasoline Range Organics     | 1000  | 1143   |           | mg/Kg |   | 114  | 70 - 130 |  |
| (GRO)-C6-C10                |       |        |           |       |   |      |          |  |
| Diesel Range Organics (Over | 1000  | 855.1  |           | mg/Kg |   | 86   | 70 - 130 |  |
| C10-C28)                    |       |        |           |       |   |      |          |  |

|                | LCS       | LUS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 102       |           | 70 - 130 |
| o-Terphenyl    | 133       | S1+       | 70 - 130 |

Project/Site: Mis Amigos tank battery

Client: Vertex

Job ID: 890-6296-1

SDG: 23E-05219

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

Lab Sample ID: LCSD 880-74822/3-A

Matrix: Solid

Lab Sample ID: 890-6289-A-1-D MS

Analysis Batch: 74778

Diesel Range Organics (Over

**Analysis Batch: 74778** 

Client Sample ID: Lab Control Sample Dup

80

Prep Type: Total/NA Prep Batch: 74822

7

Spike LCSD LCSD RPD Limit Analyte Added Result Qualifier Unit %Rec Limits RPD D Gasoline Range Organics 1000 1055 mg/Kg 106 70 - 130 8 20 (GRO)-C6-C10

797.0

mg/Kg

1000

C10-C28)

LCSD LCSD

| Surrogate      | %Recovery | Qualifier | Limits   |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 95        |           | 70 - 130 |
| o-Terphenyl    | 118       |           | 70 - 130 |

Client Sample ID: Matrix Spike

70 - 130

Prep Type: Total/NA

Prep Batch: 74822

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1010 Gasoline Range Organics <50.1 U 1012 mg/Kg 96 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 57.4 1010 994.0 mg/Kg 93 70 - 130

C10-C28)

Matrix: Solid

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 126
 70 - 130

 o-Terphenyl
 128
 70 - 130

Lab Sample ID: 890-6289-A-1-E MSD

Matrix: Solid Analysis Batch: 74778 Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Prep Batch: 74822

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <50.1 U 1010 958.7 90 Gasoline Range Organics 70 - 130 20 mg/Kg 5 (GRO)-C6-C10 1010 932.9 87 20 Diesel Range Organics (Over 57 4 mg/Kg 70 - 130

C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 118
 70 - 130

 o-Terphenyl
 120
 70 - 130

Lab Sample ID: MB 880-74834/1-A

Matrix: Solid

Analysis Batch: 74863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74834

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 03/05/24 16:53 03/06/24 08:13 (GRO)-C6-C10 03/05/24 16:53 03/06/24 08:13 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) 03/05/24 16:53 03/06/24 08:13 OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg

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12

14

Job ID: 890-6296-1 Project/Site: Mis Amigos tank battery

SDG: 23E-05219

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

MB MB

Lab Sample ID: MB 880-74834/1-A **Matrix: Solid** 

Analysis Batch: 74863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74834

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 121       |           | 70 - 130 | 03/05/24 16:53 | 03/06/24 08:13 | 1       |
| o-Terphenyl    | 139       | S1+       | 70 - 130 | 03/05/24 16:53 | 03/06/24 08:13 | 1       |

Lab Sample ID: LCS 880-74834/2-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

Analysis Batch: 74863

Lab Sample ID: LCSD 880-74834/3-A

Prep Type: Total/NA Prep Batch: 74834

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1066 107 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1137 mg/Kg 114 70 - 130C10-C28)

LCS LCS

| Surrogate      | %Recovery | Qualifier | Limits   |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 97        |           | 70 - 130 |
| o-Terphenyl    | 102       |           | 70 - 130 |

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74834

Spike LCSD LCSD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics 1000 1123 mg/Kg 112 70 - 130 5 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1061 mg/Kg 106 70 - 130 20

C10-C28)

**Matrix: Solid** 

**Analysis Batch: 74863** 

LCSD LCSD

| Surrogate      | %Recovery Qualifier | Limits   |
|----------------|---------------------|----------|
| 1-Chlorooctane | 90                  | 70 - 130 |
| o-Terphenyl    | 95                  | 70 - 130 |

Lab Sample ID: 890-6296-11 MS Client Sample ID: BH24-14 2 **Matrix: Solid** 

Result

1103

1036

Qualifier

Unit

mg/Kg

mg/Kg

%Rec

105

100

70 - 130

Added

1010

1010

Prep Type: Total/NA Prep Batch: 74834

Analysis Batch: 74863 Sample Sample Spike MS MS

%Rec Limits 70 - 130

(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)

Gasoline Range Organics

Analyte

MS MS

Result Qualifier

<49.7 U

<49.7 U

| Surrogate      | %Recovery | Qualifier | Limits   |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 129       |           | 70 - 130 |
| o-Terphenyl    | 135       | S1+       | 70 - 130 |

## QC Sample Results

Client: Vertex Job ID: 890-6296-1 SDG: 23E-05219 Project/Site: Mis Amigos tank battery

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

Lab Sample ID: 890-6296-11 MSD Client Sample ID: BH24-14 2

**Matrix: Solid** 

Analysis Batch: 74863

Prep Type: Total/NA Prep Batch: 74834 RPD

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Gasoline Range Organics <49.7 U 1010 1170 mg/Kg 112 70 - 130 6 20 (GRO)-C6-C10 1010 Diesel Range Organics (Over <49.7 U 1032 mg/Kg 99 70 - 130 0 C10-C28)

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 128       |           | 70 - 130 |
| o-Terphenyl    | 132       | S1+       | 70 - 130 |

Lab Sample ID: MB 880-74838/1-A Client Sample ID: Method Blank

**Matrix: Solid** 

Prep Type: Total/NA Prep Batch: 74838

**Analysis Batch: 74861** мв мв

| Analyte                           | Result ( | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|----------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics           | <50.0    | U         | 50.0 | mg/Kg |   | 03/05/24 17:05 | 03/06/24 08:13 | 1       |
| (GRO)-C6-C10                      |          |           |      |       |   |                |                |         |
| Diesel Range Organics (Over       | <50.0 l  | U         | 50.0 | mg/Kg |   | 03/05/24 17:05 | 03/06/24 08:13 | 1       |
| C10-C28)                          |          |           |      |       |   |                |                |         |
| Oll Range Organics (Over C28-C36) | <50.0    | U         | 50.0 | mg/Kg |   | 03/05/24 17:05 | 03/06/24 08:13 | 1       |
|                                   |          |           |      |       |   |                |                |         |

MB MB

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 38        | S1-       | 70 - 130 | 03/05/24 17:05 | 03/06/24 08:13 | 1       |
| o-Terphenyl    | 29        | S1-       | 70 - 130 | 03/05/24 17:05 | 03/06/24 08:13 | 1       |

Lab Sample ID: LCS 880-74838/2-A

Matrix: Solid

Analysis Batch: 74861

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 74838

|                             | Spike | LCS    | LCS       |       |   |      | %Rec     |      |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|------|
| Analyte                     | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |      |
| Gasoline Range Organics     | 1000  | 1117   |           | mg/Kg |   | 112  | 70 - 130 | <br> |
| (GRO)-C6-C10                |       |        |           |       |   |      |          |      |
| Diesel Range Organics (Over | 1000  | 960.8  |           | mg/Kg |   | 96   | 70 - 130 |      |
| C10-C28)                    |       |        |           |       |   |      |          |      |

LCS LCS

| Surrogate      | %Recovery | Qualifier | Limits   |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 108       |           | 70 - 130 |
| o-Terphenyl    | 117       |           | 70 - 130 |

Lab Sample ID: LCSD 880-74838/3-A

**Matrix: Solid** 

Analysis Batch: 74861

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Prep Batch: 74838

|                             | Spike | LCSD   | LCSD      |       |   |      | %Rec     |     | RPD   |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                     | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics     | 1000  | 1053   |           | mg/Kg |   | 105  | 70 - 130 | 6   | 20    |
| (GRO)-C6-C10                |       |        |           |       |   |      |          |     |       |
| Diesel Range Organics (Over | 1000  | 890.5  |           | mg/Kg |   | 89   | 70 - 130 | 8   | 20    |
| C10-C28)                    |       |        |           |       |   |      |          |     |       |

Client: Vertex Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1 SDG: 23E-05219

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

Lab Sample ID: LCSD 880-74838/3-A **Matrix: Solid** 

Analysis Batch: 74861

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74838

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 103       |           | 70 - 130 |
| o-Terphenvl    | 102       |           | 70 - 130 |

Lab Sample ID: 890-6296-9 MS Client Sample ID: BH24-13 2

**Matrix: Solid** 

Analysis Batch: 74861

Prep Type: Total/NA

Prep Batch: 74838

|   | Sample | Sample    | Spike | MS     | MS        |       |   |      | %Rec     |  |
|---|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte                                 | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |  |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.7  | U         | 1010  | 867.6  |           | mg/Kg |   | 82   | 70 - 130 |  |
| Diesel Range Organics (Over C10-C28)    | <49.7  | U         | 1010  | 929.0  |           | mg/Kg |   | 89   | 70 - 130 |  |

MS MS Surrogate %Recovery Qualifier Limits 117 70 - 130 1-Chlorooctane o-Terphenyl 98 70 - 130

Lab Sample ID: 890-6296-9 MSD

Matrix: Solid

**Analysis Batch: 74861** 

Client Sample ID: BH24-13 2 Prep Type: Total/NA

Prep Batch: 74838

|   | Sample | Sample    | <b>Spike</b> | MSD    | MSD       |       |   |      | %Rec     |     | RPD   |
|---|--------|-----------|--------------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                                 | Result | Qualifier | Added        | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.7  | U         | 1010         | 849.2  |           | mg/Kg |   | 80   | 70 - 130 | 2   | 20    |
| Diesel Range Organics (Over C10-C28)    | <49.7  | U         | 1010         | 945.7  |           | mg/Kg |   | 91   | 70 - 130 | 2   | 20    |

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 116 o-Terphenyl 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74627/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 74903

мв мв Dil Fac Analyte Result Qualifier RL Unit Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 03/07/24 21:31

Lab Sample ID: LCS 880-74627/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

Matrix: Solid

Analysis Batch: 74903

|          | Spike | LCS    | LCS       |       |   |      | %Rec     |  |
|----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte  | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |  |
| Chloride | 250   | 256.9  |           | mg/Kg | _ | 103  | 90 - 110 |  |

Client: Vertex Job ID: 890-6296-1 Project/Site: Mis Amigos tank battery SDG: 23E-05219

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-74627/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 74903** 

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Chloride 250 254.9 mg/Kg 102 90 - 110 20

Lab Sample ID: 890-6296-5 MS Client Sample ID: BH24-12 0 **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 74903** 

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits Chloride 7030 F1 2480 9130 F1 mg/Kg 85 90 - 110

Lab Sample ID: 890-6296-5 MSD Client Sample ID: BH24-12 0 **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 74903

MSD MSD RPD Spike %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 7030 F1 2480 9208 F1 mg/Kg 90 - 110

Lab Sample ID: MB 880-74628/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 74929** 

мв мв

Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac 5.00 mg/Kg Chloride <5.00 03/08/24 01:41

Lab Sample ID: LCS 880-74628/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 74929

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 263.3 mg/Kg 105 90 - 110

Lab Sample ID: LCSD 880-74628/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble** 

Matrix: Solid

**Analysis Batch: 74929** 

Spike LCSD LCSD %Rec RPD Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 263.0 mg/Kg 105 90 - 110 20

Lab Sample ID: 890-6296-15 MS Client Sample ID: BH24-17 2

**Matrix: Solid** 

**Analysis Batch: 74929** 

MS MS %Rec Sample Sample Spike Qualifier Added Result Qualifier Limits Analyte Result Unit D %Rec Chloride 371 1260 1532 mg/Kg 93 90 - 110

Lab Sample ID: 890-6296-15 MSD Client Sample ID: BH24-17 2

**Analysis Batch: 74929** 

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 371 1260 1544 mg/Kg 94 90 - 110 20

**Eurofins Carlsbad** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Matrix: Solid** 

Released to Imaging: 4/16/2024 2:38:45 PM

Client: Vertex Job ID: 890-6296-1
Project/Site: Mis Amigos tank battery SDG: 23E-05219

**GC VOA** 

Analysis Batch: 74575

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6296-1         | BH24-09 0              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-2         | BH24-09 2              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-3         | BH24-11 0              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-4         | BH24-11 2              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-5         | BH24-12 0              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-6         | BH24-12 4              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-7         | BH24-12 8              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-8         | BH24-13 0              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-9         | BH24-13 2              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-10        | BH24-14 0              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-11        | BH24-14 2              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-12        | BH24-15 0              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-13        | BH24-15 2              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-14        | BH24-17 0              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-15        | BH24-17 2              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-16        | BH24-18 0              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-17        | BH24-18 2              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-18        | BH24-19 0              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-19        | BH24-19 2              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-20        | BH24-20 0              | Total/NA  | Solid  | 8021B  | 74676      |
| MB 880-74676/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 74676      |
| LCS 880-74676/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 74676      |
| LCSD 880-74676/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-1 MS      | BH24-09 0              | Total/NA  | Solid  | 8021B  | 74676      |
| 890-6296-1 MSD     | BH24-09 0              | Total/NA  | Solid  | 8021B  | 74676      |

Prep Batch: 74652

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Pren Batch  |
|------------------|------------------|-----------|--------|--------|-------------|
| MB 880-74652/5-A | Method Blank     | Total/NA  | Solid  | 5035   | 1 Top Baton |

Prep Batch: 74676

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batcl |
|---------------|------------------|-----------|--------|--------|------------|
| 890-6296-1    | BH24-09 0        | Total/NA  | Solid  | 5035   |            |
| 890-6296-2    | BH24-09 2        | Total/NA  | Solid  | 5035   |            |
| 890-6296-3    | BH24-11 0        | Total/NA  | Solid  | 5035   |            |
| 890-6296-4    | BH24-11 2        | Total/NA  | Solid  | 5035   |            |
| 890-6296-5    | BH24-12 0        | Total/NA  | Solid  | 5035   |            |
| 890-6296-6    | BH24-12 4        | Total/NA  | Solid  | 5035   |            |
| 890-6296-7    | BH24-12 8        | Total/NA  | Solid  | 5035   |            |
| 890-6296-8    | BH24-13 0        | Total/NA  | Solid  | 5035   |            |
| 890-6296-9    | BH24-13 2        | Total/NA  | Solid  | 5035   |            |
| 890-6296-10   | BH24-14 0        | Total/NA  | Solid  | 5035   |            |
| 890-6296-11   | BH24-14 2        | Total/NA  | Solid  | 5035   |            |
| 890-6296-12   | BH24-15 0        | Total/NA  | Solid  | 5035   |            |
| 890-6296-13   | BH24-15 2        | Total/NA  | Solid  | 5035   |            |
| 890-6296-14   | BH24-17 0        | Total/NA  | Solid  | 5035   |            |
| 890-6296-15   | BH24-17 2        | Total/NA  | Solid  | 5035   |            |
| 890-6296-16   | BH24-18 0        | Total/NA  | Solid  | 5035   |            |
| 890-6296-17   | BH24-18 2        | Total/NA  | Solid  | 5035   |            |
| 890-6296-18   | BH24-19 0        | Total/NA  | Solid  | 5035   |            |
| 890-6296-19   | BH24-19 2        | Total/NA  | Solid  | 5035   |            |

Client: Vertex

Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1

SDG: 23E-05219

# **GC VOA (Continued)**

## Prep Batch: 74676 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6296-20        | BH24-20 0              | Total/NA  | Solid  | 5035   |            |
| MB 880-74676/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-74676/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-74676/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-6296-1 MS      | BH24-09 0              | Total/NA  | Solid  | 5035   |            |
| 890-6296-1 MSD     | BH24-09 0              | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 74689

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-6296-21         | BH24-20 2              | Total/NA  | Solid  | 5035   |            |
| MB 880-74689/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-74689/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-74689/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-40191-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-40191-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

#### Analysis Batch: 74750

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-6296-21         | BH24-20 2              | Total/NA  | Solid  | 8021B  | 74689      |
| MB 880-74652/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 74652      |
| MB 880-74689/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 74689      |
| LCS 880-74689/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 74689      |
| LCSD 880-74689/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 74689      |
| 880-40191-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 74689      |
| 880-40191-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 74689      |

## Analysis Batch: 74919

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batc |
|---------------|------------------|-----------|--------|------------|-----------|
| 890-6296-1    | BH24-09 0        | Total/NA  | Solid  | Total BTEX |           |
| 890-6296-2    | BH24-09 2        | Total/NA  | Solid  | Total BTEX |           |
| 890-6296-3    | BH24-11 0        | Total/NA  | Solid  | Total BTEX |           |
| 890-6296-4    | BH24-11 2        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-5    | BH24-12 0        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-6    | BH24-12 4        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-7    | BH24-12 8        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-8    | BH24-13 0        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-9    | BH24-13 2        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-10   | BH24-14 0        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-11   | BH24-14 2        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-12   | BH24-15 0        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-13   | BH24-15 2        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-14   | BH24-17 0        | Total/NA  | Solid  | Total BTEX |           |
| 90-6296-15    | BH24-17 2        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-16   | BH24-18 0        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-17   | BH24-18 2        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-18   | BH24-19 0        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-19   | BH24-19 2        | Total/NA  | Solid  | Total BTEX |           |
| 90-6296-20    | BH24-20 0        | Total/NA  | Solid  | Total BTEX |           |
| 390-6296-21   | BH24-20 2        | Total/NA  | Solid  | Total BTEX |           |

Client: Vertex Job ID: 890-6296-1 Project/Site: Mis Amigos tank battery

SDG: 23E-05219

## GC Semi VOA

## Analysis Batch: 74778

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-6296-1         | BH24-09 0              | Total/NA  | Solid  | 8015B NM | 74822      |
| 890-6296-2         | BH24-09 2              | Total/NA  | Solid  | 8015B NM | 74822      |
| 890-6296-3         | BH24-11 0              | Total/NA  | Solid  | 8015B NM | 74822      |
| 890-6296-4         | BH24-11 2              | Total/NA  | Solid  | 8015B NM | 74822      |
| 890-6296-5         | BH24-12 0              | Total/NA  | Solid  | 8015B NM | 74822      |
| 890-6296-6         | BH24-12 4              | Total/NA  | Solid  | 8015B NM | 74822      |
| 890-6296-7         | BH24-12 8              | Total/NA  | Solid  | 8015B NM | 74822      |
| 890-6296-8         | BH24-13 0              | Total/NA  | Solid  | 8015B NM | 74822      |
| MB 880-74822/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 74822      |
| LCS 880-74822/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 74822      |
| LCSD 880-74822/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 74822      |
| 890-6289-A-1-D MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 74822      |
| 890-6289-A-1-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 74822      |

#### Prep Batch: 74822

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-6296-1         | BH24-09 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-2         | BH24-09 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-3         | BH24-11 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-4         | BH24-11 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-5         | BH24-12 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-6         | BH24-12 4              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-7         | BH24-12 8              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-8         | BH24-13 0              | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-74822/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-74822/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-74822/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6289-A-1-D MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6289-A-1-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Prep Batch: 74834

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batcl |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-6296-11        | BH24-14 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-12        | BH24-15 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-13        | BH24-15 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-14        | BH24-17 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-15        | BH24-17 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-16        | BH24-18 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-17        | BH24-18 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-18        | BH24-19 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-19        | BH24-19 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-20        | BH24-20 0              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-21        | BH24-20 2              | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-74834/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-74834/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-74834/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-11 MS     | BH24-14 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-11 MSD    | BH24-14 2              | Total/NA  | Solid  | 8015NM Prep |            |

Client: Vertex

Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1

SDG: 23E-05219

## GC Semi VOA

## Prep Batch: 74838

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-6296-9         | BH24-13 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-10        | BH24-14 0              | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-74838/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-74838/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-74838/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-9 MS      | BH24-13 2              | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6296-9 MSD     | BH24-13 2              | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 74861

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-6296-9         | BH24-13 2              | Total/NA  | Solid  | 8015B NM | 74838      |
| 890-6296-10        | BH24-14 0              | Total/NA  | Solid  | 8015B NM | 74838      |
| MB 880-74838/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 74838      |
| LCS 880-74838/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 74838      |
| LCSD 880-74838/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 74838      |
| 890-6296-9 MS      | BH24-13 2              | Total/NA  | Solid  | 8015B NM | 74838      |
| 890-6296-9 MSD     | BH24-13 2              | Total/NA  | Solid  | 8015B NM | 74838      |

## Analysis Batch: 74863

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-6296-11        | BH24-14 2              | Total/NA  | Solid  | 8015B NM | 74834      |
| 890-6296-12        | BH24-15 0              | Total/NA  | Solid  | 8015B NM | 74834      |
| 890-6296-13        | BH24-15 2              | Total/NA  | Solid  | 8015B NM | 74834      |
| 890-6296-14        | BH24-17 0              | Total/NA  | Solid  | 8015B NM | 74834      |
| 890-6296-15        | BH24-17 2              | Total/NA  | Solid  | 8015B NM | 74834      |
| 890-6296-16        | BH24-18 0              | Total/NA  | Solid  | 8015B NM | 74834      |
| 890-6296-17        | BH24-18 2              | Total/NA  | Solid  | 8015B NM | 74834      |
| 890-6296-18        | BH24-19 0              | Total/NA  | Solid  | 8015B NM | 74834      |
| 890-6296-19        | BH24-19 2              | Total/NA  | Solid  | 8015B NM | 74834      |
| 890-6296-20        | BH24-20 0              | Total/NA  | Solid  | 8015B NM | 74834      |
| 890-6296-21        | BH24-20 2              | Total/NA  | Solid  | 8015B NM | 74834      |
| MB 880-74834/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 74834      |
| LCS 880-74834/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 74834      |
| LCSD 880-74834/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 74834      |
| 890-6296-11 MS     | BH24-14 2              | Total/NA  | Solid  | 8015B NM | 74834      |
| 890-6296-11 MSD    | BH24-14 2              | Total/NA  | Solid  | 8015B NM | 74834      |

## Analysis Batch: 74892

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-6296-1    | BH24-09 0        | Total/NA  | Solid  | 8015 NM | _          |
| 890-6296-2    | BH24-09 2        | Total/NA  | Solid  | 8015 NM |            |
| 890-6296-3    | BH24-11 0        | Total/NA  | Solid  | 8015 NM |            |
| 890-6296-4    | BH24-11 2        | Total/NA  | Solid  | 8015 NM |            |
| 890-6296-5    | BH24-12 0        | Total/NA  | Solid  | 8015 NM |            |
| 890-6296-6    | BH24-12 4        | Total/NA  | Solid  | 8015 NM |            |
| 890-6296-7    | BH24-12 8        | Total/NA  | Solid  | 8015 NM |            |
| 890-6296-8    | BH24-13 0        | Total/NA  | Solid  | 8015 NM |            |
| 890-6296-9    | BH24-13 2        | Total/NA  | Solid  | 8015 NM |            |
| 890-6296-10   | BH24-14 0        | Total/NA  | Solid  | 8015 NM |            |
| 890-6296-11   | BH24-14 2        | Total/NA  | Solid  | 8015 NM |            |
| 890-6296-12   | BH24-15 0        | Total/NA  | Solid  | 8015 NM |            |

Client: Vertex Job ID: 890-6296-1 Project/Site: Mis Amigos tank battery

SDG: 23E-05219

## **GC Semi VOA (Continued)**

## **Analysis Batch: 74892 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method    | Prep Batch |
|---------------|------------------|-----------|--------|-----------|------------|
| 890-6296-13   | BH24-15 2        | Total/NA  | Solid  | 8015 NM   |            |
| 890-6296-14   | BH24-17 0        | Total/NA  | Solid  | 8015 NM   |            |
| 890-6296-15   | BH24-17 2        | Total/NA  | Solid  | 8015 NM   |            |
| 890-6296-16   | BH24-18 0        | Total/NA  | Solid  | 8015 NM   |            |
| 890-6296-17   | BH24-18 2        | Total/NA  | Solid  | 8015 NM   |            |
| 890-6296-18   | BH24-19 0        | Total/NA  | Solid  | 8015 NM   |            |
| 890-6296-19   | BH24-19 2        | Total/NA  | Solid  | 8015 NM   |            |
| 890-6296-20   | BH24-20 0        | Total/NA  | Solid  | 8015 NM   |            |
| 890-6296-21   | BH24-20 2        | Total/NA  | Solid  | 8015 NM   |            |
| _             | 5.12.1202        | 101471 11 |        | 001011111 |            |

## **HPLC/IC**

#### Leach Batch: 74627

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batcl |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-6296-1         | BH24-09 0              | Soluble   | Solid  | DI Leach |            |
| 890-6296-2         | BH24-09 2              | Soluble   | Solid  | DI Leach |            |
| 890-6296-3         | BH24-11 0              | Soluble   | Solid  | DI Leach |            |
| 890-6296-4         | BH24-11 2              | Soluble   | Solid  | DI Leach |            |
| 890-6296-5         | BH24-12 0              | Soluble   | Solid  | DI Leach |            |
| 890-6296-6         | BH24-12 4              | Soluble   | Solid  | DI Leach |            |
| 890-6296-7         | BH24-12 8              | Soluble   | Solid  | DI Leach |            |
| 890-6296-8         | BH24-13 0              | Soluble   | Solid  | DI Leach |            |
| 890-6296-9         | BH24-13 2              | Soluble   | Solid  | DI Leach |            |
| 890-6296-10        | BH24-14 0              | Soluble   | Solid  | DI Leach |            |
| 890-6296-11        | BH24-14 2              | Soluble   | Solid  | DI Leach |            |
| 890-6296-12        | BH24-15 0              | Soluble   | Solid  | DI Leach |            |
| 890-6296-13        | BH24-15 2              | Soluble   | Solid  | DI Leach |            |
| 890-6296-14        | BH24-17 0              | Soluble   | Solid  | DI Leach |            |
| MB 880-74627/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-74627/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-74627/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-6296-5 MS      | BH24-12 0              | Soluble   | Solid  | DI Leach |            |
| 890-6296-5 MSD     | BH24-12 0              | Soluble   | Solid  | DI Leach |            |

#### Leach Batch: 74628

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batc |
|--------------------|------------------------|-----------|--------|----------|-----------|
| 890-6296-15        | BH24-17 2              | Soluble   | Solid  | DI Leach |           |
| 390-6296-16        | BH24-18 0              | Soluble   | Solid  | DI Leach |           |
| 390-6296-17        | BH24-18 2              | Soluble   | Solid  | DI Leach |           |
| 890-6296-18        | BH24-19 0              | Soluble   | Solid  | DI Leach |           |
| 390-6296-19        | BH24-19 2              | Soluble   | Solid  | DI Leach |           |
| 390-6296-20        | BH24-20 0              | Soluble   | Solid  | DI Leach |           |
| 390-6296-21        | BH24-20 2              | Soluble   | Solid  | DI Leach |           |
| MB 880-74628/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |           |
| CS 880-74628/2-A   | Lab Control Sample     | Soluble   | Solid  | DI Leach |           |
| _CSD 880-74628/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |           |
| 390-6296-15 MS     | BH24-17 2              | Soluble   | Solid  | DI Leach |           |
| 890-6296-15 MSD    | BH24-17 2              | Soluble   | Solid  | DI Leach |           |

Client: Vertex Job ID: 890-6296-1
Project/Site: Mis Amigos tank battery SDG: 23E-05219

HPLC/IC

Analysis Batch: 74903

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6296-1         | BH24-09 0              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-2         | BH24-09 2              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-3         | BH24-11 0              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-4         | BH24-11 2              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-5         | BH24-12 0              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-6         | BH24-12 4              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-7         | BH24-12 8              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-8         | BH24-13 0              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-9         | BH24-13 2              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-10        | BH24-14 0              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-11        | BH24-14 2              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-12        | BH24-15 0              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-13        | BH24-15 2              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-14        | BH24-17 0              | Soluble   | Solid  | 300.0  | 74627      |
| MB 880-74627/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 74627      |
| LCS 880-74627/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 74627      |
| LCSD 880-74627/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-5 MS      | BH24-12 0              | Soluble   | Solid  | 300.0  | 74627      |
| 890-6296-5 MSD     | BH24-12 0              | Soluble   | Solid  | 300.0  | 74627      |

Analysis Batch: 74929

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6296-15        | BH24-17 2              | Soluble   | Solid  | 300.0  | 74628      |
| 890-6296-16        | BH24-18 0              | Soluble   | Solid  | 300.0  | 74628      |
| 890-6296-17        | BH24-18 2              | Soluble   | Solid  | 300.0  | 74628      |
| 890-6296-18        | BH24-19 0              | Soluble   | Solid  | 300.0  | 74628      |
| 890-6296-19        | BH24-19 2              | Soluble   | Solid  | 300.0  | 74628      |
| 890-6296-20        | BH24-20 0              | Soluble   | Solid  | 300.0  | 74628      |
| 890-6296-21        | BH24-20 2              | Soluble   | Solid  | 300.0  | 74628      |
| MB 880-74628/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 74628      |
| LCS 880-74628/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 74628      |
| LCSD 880-74628/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 74628      |
| 890-6296-15 MS     | BH24-17 2              | Soluble   | Solid  | 300.0  | 74628      |
| 890-6296-15 MSD    | BH24-17 2              | Soluble   | Solid  | 300.0  | 74628      |

Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1

SDG: 23E-05219

Client Sample ID: BH24-09 0

Date Received: 03/01/24 09:16

Date Collected: 02/27/24 11:40

Lab Sample ID: 890-6296-1

**Matrix: Solid** 

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.02 g 5 mL 74676 03/04/24 14:32 MNR **EET MID** Total/NA Analysis 8021B 1 5 mL 5 mL 74575 03/05/24 12:33 MNR EET MID Total/NA Analysis Total BTEX 74919 03/05/24 12:33 SM **EET MID** 8015 NM Total/NA Analysis 1 74892 03/06/24 03:47 SM **EET MID** 74822 03/05/24 14:08 EET MID Total/NA 8015NM Prep 10.03 g 10 mL A.I Prep Total/NA Analysis 8015B NM 1 uL 1 uL 74778 03/06/24 03:47 SM **EET MID** 4.96 g 50 mL 74627 03/04/24 12:06 SMC Soluble DI Leach FFT MID Leach Soluble Analysis 300.0 74903 03/07/24 23:04 СН **EET MID** 

Client Sample ID: BH24-09 2

Date Collected: 02/27/24 12:00

Date Received: 03/01/24 09:16

Lab Sample ID: 890-6296-2

Matrix: Solid

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Factor Amount Amount Number or Analyzed Lab Run **Analyst** Total/NA Prep 5035 4.96 g 5 mL 74676 03/04/24 14:32 MNR EET MID 8021B Total/NA Analysis 1 5 mL 5 mL 74575 03/05/24 12:54 MNR **EET MID** Total/NA Total BTEX Analysis 74919 03/05/24 12:54 SM **EET MID** 1 Total/NA Analysis 8015 NM 74892 03/06/24 04:08 SM **EET MID** Total/NA 8015NM Prep 10.06 g 10 mL 74822 03/05/24 14:08 **EET MID** Prep AJ Total/NA Analysis 8015B NM 1 uL 1 uL 74778 03/06/24 04:08 SM **EET MID** Soluble 03/04/24 12:06 DI Leach 4.95 g 50 mL 74627 SMC **EET MID** Leach Soluble Analysis 300.0 74903 03/07/24 23:11 СН **EET MID** 

Client Sample ID: BH24-11 0

Date Collected: 02/28/24 13:00

Date Received: 03/01/24 09:16

Lab Sample ID: 890-6296-3

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.97 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 13:14 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 13:14 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 04:31 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.02 g | 10 mL  | 74822  | 03/05/24 14:08 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74778  | 03/06/24 04:31 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.99 g  | 50 mL  | 74627  | 03/04/24 12:06 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 74903  | 03/07/24 23:18 | CH      | EET MID |

Client Sample ID: BH24-11 2

Date Collected: 02/28/24 13:10

Date Received: 03/01/24 09:16

| Lab Sample ID: | 890-6296-4    |
|----------------|---------------|
|                | Matrix: Solid |

|           | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035       |     |        | 4.99 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 13:34 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 74919  | 03/05/24 13:34 | SM      | EET MID |

Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1

SDG: 23E-05219

Client Sample ID: BH24-11 2

Date Received: 03/01/24 09:16

Date Collected: 02/28/24 13:10

Lab Sample ID: 890-6296-4

**Matrix: Solid** 

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 74892 Analysis 03/06/24 04:54 SM **EET MID** Total/NA Prep 8015NM Prep 10.01 g 10 mL 74822 03/05/24 14:08 ΑJ **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 74778 03/06/24 04:54 SM EET MID Soluble 5.02 g 50 mL 74627 03/04/24 12:06 SMC EET MID Leach DI Leach 300.0 74903 03/07/24 23:25 Soluble Analysis 1 СН **EET MID** 

Lab Sample ID: 890-6296-5

Date Collected: 02/27/24 13:30

Client Sample ID: BH24-12 0

Date Received: 03/01/24 09:16

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.01 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 13:55 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 13:55 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 05:15 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.98 g  | 10 mL  | 74822  | 03/05/24 14:08 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74778  | 03/06/24 05:15 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.04 g  | 50 mL  | 74627  | 03/04/24 12:06 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 10     |         |        | 74903  | 03/07/24 23:32 | CH      | EET MID |

Client Sample ID: BH24-12 4

Date Collected: 02/28/24 13:30

Date Received: 03/01/24 09:16

Lab Sample ID: 890-6296-6

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.04 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 14:15 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 14:15 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 05:36 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.92 g  | 10 mL  | 74822  | 03/05/24 14:08 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74778  | 03/06/24 05:36 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.97 g  | 50 mL  | 74627  | 03/04/24 12:06 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 5      |         |        | 74903  | 03/07/24 23:54 | CH      | EET MID |

Client Sample ID: BH24-12 8

Date Collected: 02/28/24 15:20

Date Received: 03/01/24 09:16

Lab Sample ID: 890-6296-7

**Matrix: Solid** 

| _         | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.00 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 14:36 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 14:36 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 05:57 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.90 g  | 10 mL  | 74822  | 03/05/24 14:08 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74778  | 03/06/24 05:57 | SM      | EET MID |

Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1

SDG: 23E-05219

Client Sample ID: BH24-12 8

Date Received: 03/01/24 09:16

Date Collected: 02/28/24 15:20

Lab Sample ID: 890-6296-7

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 74627 SMC Leach 4.95 g 50 mL 03/04/24 12:06 **EET MID** 300.0 03/08/24 00:01 Soluble Analysis 5 74903 СН **EET MID** 

Client Sample ID: BH24-13 0 Lab Sample ID: 890-6296-8

Date Collected: 02/28/24 09:45 Date Received: 03/01/24 09:16

Matrix: Solid

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.03 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 14:56 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 14:56 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 06:18 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.00 g | 10 mL  | 74822  | 03/05/24 14:08 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74778  | 03/06/24 06:18 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.99 g  | 50 mL  | 74627  | 03/04/24 12:06 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 74903  | 03/08/24 00:22 | CH      | EET MID |

Client Sample ID: BH24-13 2 Lab Sample ID: 890-6296-9

Date Collected: 02/28/24 09:55

Date Received: 03/01/24 09:16

**Matrix: Solid** 

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.05 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 15:17 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 15:17 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 10:45 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.06 g | 10 mL  | 74838  | 03/05/24 17:05 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74861  | 03/06/24 10:45 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.99 g  | 50 mL  | 74627  | 03/04/24 12:06 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 74903  | 03/08/24 00:30 | CH      | EET MID |

Client Sample ID: BH24-14 0 Lab Sample ID: 890-6296-10

Date Collected: 02/28/24 10:00 Date Received: 03/01/24 09:16

| <del>-</del> | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|--------------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type    | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA     | Prep     | 5035        |     |        | 4.96 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA     | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 15:37 | MNR     | EET MID |
| Total/NA     | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 15:37 | SM      | EET MID |
| Total/NA     | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 11:51 | SM      | EET MID |
| Total/NA     | Prep     | 8015NM Prep |     |        | 9.90 g  | 10 mL  | 74838  | 03/05/24 17:05 | AJ      | EET MID |
| Total/NA     | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74861  | 03/06/24 11:51 | SM      | EET MID |
| Soluble      | Leach    | DI Leach    |     |        | 5.00 g  | 50 mL  | 74627  | 03/04/24 12:06 | SMC     | EET MID |
| Soluble      | Analysis | 300.0       |     | 1      |         |        | 74903  | 03/08/24 00:37 | CH      | EET MID |

Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1

SDG: 23E-05219

Client Sample ID: BH24-14 2

Date Collected: 02/28/24 10:05 Date Received: 03/01/24 09:16 Lab Sample ID: 890-6296-11

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.97 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 17:28 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 17:28 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 10:45 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.06 g | 10 mL  | 74834  | 03/05/24 16:53 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74863  | 03/06/24 10:45 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.01 g  | 50 mL  | 74627  | 03/04/24 12:06 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 74903  | 03/08/24 00:44 | CH      | EET MID |

Client Sample ID: BH24-15 0

Date Collected: 02/28/24 10:30

Date Received: 03/01/24 09:16

Lab Sample ID: 890-6296-12

**Matrix: Solid** 

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 74676 Total/NA 4.99 g 5 mL 03/04/24 14:32 MNR EET MID Total/NA 8021B 5 mL 03/05/24 17:48 **EET MID** Analysis 1 5 mL 74575 MNR Total/NA Total BTEX 74919 03/05/24 17:48 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 74892 03/06/24 11:51 SM **EET MID** Total/NA 74834 Prep 8015NM Prep 9.90 g 10 mL 03/05/24 16:53 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 74863 03/06/24 11:51 SM **EET MID** Soluble 03/04/24 12:06 Leach DI Leach 4.96 g 50 mL 74627 SMC **EET MID** Soluble Analysis 300.0 10 74903 03/08/24 00:51 СН **EET MID** 

Client Sample ID: BH24-15 2

Date Collected: 02/28/24 10:40

Date Received: 03/01/24 09:16

Lab Sample ID: 890-6296-13

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.01 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 18:09 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 18:09 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 12:13 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.00 g | 10 mL  | 74834  | 03/05/24 16:53 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74863  | 03/06/24 12:13 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.98 g  | 50 mL  | 74627  | 03/04/24 12:06 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 74903  | 03/08/24 00:58 | CH      | EET MID |

Client Sample ID: BH24-17 0

Date Collected: 02/28/24 10:55

Date Received: 03/01/24 09:16

| Lab Sample | ID: 890-6296-14 |
|------------|-----------------|
|------------|-----------------|

**Matrix: Solid** 

|           | Batch    | Batch      |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method     | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035       |     |        | 5.04 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B      |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 18:30 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX |     | 1      |         |        | 74919  | 03/05/24 18:30 | SM      | EET MID |

Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1 SDG: 23E-05219

Client Sample ID: BH24-17 0

Date Collected: 02/28/24 10:55 Date Received: 03/01/24 09:16 Lab Sample ID: 890-6296-14

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 12:34 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.04 g | 10 mL  | 74834  | 03/05/24 16:53 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74863  | 03/06/24 12:34 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.02 g  | 50 mL  | 74627  | 03/04/24 12:06 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 20     |         |        | 74903  | 03/08/24 01:05 | CH      | EET MID |

Client Sample ID: BH24-17 2 Lab Sample ID: 890-6296-15

Date Collected: 02/28/24 11:00

Date Received: 03/01/24 09:16

**Matrix: Solid** 

**Matrix: Solid** 

**EET MID** 

EET MID

**Matrix: Solid** 

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.00 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 18:50 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 18:50 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 12:56 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.08 g | 10 mL  | 74834  | 03/05/24 16:53 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74863  | 03/06/24 12:56 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.98 g  | 50 mL  | 74628  | 03/04/24 12:11 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 5      |         |        | 74929  | 03/08/24 02:02 | CH      | EET MID |

Lab Sample ID: 890-6296-16 Client Sample ID: BH24-18 0

Date Collected: 02/28/24 11:30

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

DI Leach

300.0

Leach

Prep

Date Received: 03/01/24 09:16

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

| Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| 5035        |     |        | 5.05 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 19:11 | MNR     | EET MID |
| Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 19:11 | SM      | EET MID |
| 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 13:17 | SM      | EET MID |
| 8015NM Prep |     |        | 10.09 g | 10 mL  | 74834  | 03/05/24 16:53 | AJ      | EET MID |
| 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74863  | 03/06/24 13:17 | SM      | EET MID |

74628

74929

03/04/24 12:11

03/08/24 02:24

SMC

СН

50 mL

Client Sample ID: BH24-18 2 Lab Sample ID: 890-6296-17

5

4.99 g

Date Collected: 02/28/24 11:45 Date Received: 03/01/24 09:16

|                      | Batch            | Batch                   |     | Dil    | Initial        | Final         | Batch          | Prepared                         |          |                    |
|----------------------|------------------|-------------------------|-----|--------|----------------|---------------|----------------|----------------------------------|----------|--------------------|
| Prep Type            | Type             | Method                  | Run | Factor | Amount         | Amount        | Number         | or Analyzed                      | Analyst  | Lab                |
| Total/NA             | Prep             | 5035                    |     |        | 4.96 g         | 5 mL          | 74676          | 03/04/24 14:32                   | MNR      | EET MID            |
| Total/NA             | Analysis         | 8021B                   |     | 1      | 5 mL           | 5 mL          | 74575          | 03/05/24 19:31                   | MNR      | EET MID            |
| Total/NA             | Analysis         | Total BTEX              |     | 1      |                |               | 74919          | 03/05/24 19:31                   | SM       | EET MID            |
| Total/NA             | Analysis         | 8015 NM                 |     | 1      |                |               | 74892          | 03/06/24 13:39                   | SM       | EET MID            |
| Total/NA<br>Total/NA | Prep<br>Analysis | 8015NM Prep<br>8015B NM |     | 1      | 9.97 g<br>1 uL | 10 mL<br>1 uL | 74834<br>74863 | 03/05/24 16:53<br>03/06/24 13:39 | AJ<br>SM | EET MID<br>EET MID |

**Eurofins Carlsbad** 

Page 44 of 54 3/8/2024 Released to Imaging: 4/16/2024 2:38:45 PM

Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1

SDG: 23E-05219

Client Sample ID: BH24-18 2

Date Received: 03/01/24 09:16

Date Collected: 02/28/24 11:45

Lab Sample ID: 890-6296-17

Matrix: Solid

|           | Batch    | Batch    |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method   | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Soluble   | Leach    | DI Leach |     |        | 4.95 g  | 50 mL  | 74628  | 03/04/24 12:11 | SMC     | EET MID |
| Soluble   | Analysis | 300.0    |     | 5      |         |        | 74929  | 03/08/24 02:31 | CH      | EET MID |

Client Sample ID: BH24-19 0 Lab Sample ID: 890-6296-18

Date Collected: 02/28/24 12:00 **Matrix: Solid** 

Date Received: 03/01/24 09:16

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.98 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 19:52 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 19:52 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 14:00 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.92 g  | 10 mL  | 74834  | 03/05/24 16:53 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74863  | 03/06/24 14:00 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.96 g  | 50 mL  | 74628  | 03/04/24 12:11 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 74929  | 03/08/24 02:38 | CH      | EET MID |

Client Sample ID: BH24-19 2 Lab Sample ID: 890-6296-19

Date Collected: 02/29/24 12:15 **Matrix: Solid** Date Received: 03/01/24 09:16

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.99 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 20:12 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 20:12 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 14:22 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 9.90 g  | 10 mL  | 74834  | 03/05/24 16:53 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74863  | 03/06/24 14:22 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.01 g  | 50 mL  | 74628  | 03/04/24 12:11 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 74929  | 03/08/24 02:45 | CH      | EET MID |

Client Sample ID: BH24-20 0 Lab Sample ID: 890-6296-20

Date Collected: 02/29/24 12:20 Date Received: 03/01/24 09:16

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.03 g  | 5 mL   | 74676  | 03/04/24 14:32 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74575  | 03/05/24 20:33 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/05/24 20:33 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 14:44 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.03 g | 10 mL  | 74834  | 03/05/24 16:53 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74863  | 03/06/24 14:44 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.04 g  | 50 mL  | 74628  | 03/04/24 12:11 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 50     |         |        | 74929  | 03/08/24 03:07 | CH      | EET MID |

**Eurofins Carlsbad** 

**Matrix: Solid** 

Date Received: 03/01/24 09:16

## **Lab Chronicle**

Client: Vertex Job ID: 890-6296-1 Project/Site: Mis Amigos tank battery SDG: 23E-05219

Client Sample ID: BH24-20 2 Lab Sample ID: 890-6296-21 Date Collected: 02/29/24 12:30

Matrix: Solid

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.00 g  | 5 mL   | 74689  | 03/05/24 13:30 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 74750  | 03/06/24 03:34 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 74919  | 03/06/24 03:34 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 74892  | 03/06/24 15:27 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.06 g | 10 mL  | 74834  | 03/05/24 16:53 | AJ      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 74863  | 03/06/24 15:27 | SM      | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.02 g  | 50 mL  | 74628  | 03/04/24 12:11 | SMC     | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      |         |        | 74929  | 03/08/24 03:14 | CH      | EET MID |

**Laboratory References:** 

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

# **Accreditation/Certification Summary**

Client: Vertex Job ID: 890-6296-1
Project/Site: Mis Amigos tank battery SDG: 23E-05219

Laboratory: Eurofins Midland

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

| Authority               | Progra                                    | am                              | Identification Number                     | Expiration Date        |
|-------------------------|---|---------------------------------|---|------------------------|
| Texas                   | NELA                                      | Р                               | T104704400-23-26                          | 06-30-24               |
| 0 ,                     |   | ut the laboratory is not certif | fied by the governing authority. This lis | t may include analytes |
| for which the agency do | oes not offer certification.  Prep Method | Matrix                          | Analyte                                   |                        |
| 8015 NM                 | 1 TOP MOUNTOU                             | Solid                           | Total TPH                                 |                        |
| Total BTEX              |   | Solid                           | Total BTEX                                |                        |

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# **Method Summary**

Client: Vertex

Job ID: 890-6296-1 Project/Site: Mis Amigos tank battery 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

# **Sample Summary**

Client: Vertex
Project/Site: Mis Amigos tank battery

Job ID: 890-6296-1 SDG: 23E-05219

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 890-6296-1    | BH24-09 0        | Solid  | 02/27/24 11:40 | 03/01/24 09:16 |
| 890-6296-2    | BH24-09 2        | Solid  | 02/27/24 12:00 | 03/01/24 09:16 |
| 890-6296-3    | BH24-11 0        | Solid  | 02/28/24 13:00 | 03/01/24 09:16 |
| 890-6296-4    | BH24-11 2        | Solid  | 02/28/24 13:10 | 03/01/24 09:16 |
| 890-6296-5    | BH24-12 0        | Solid  | 02/27/24 13:30 | 03/01/24 09:16 |
| 890-6296-6    | BH24-12 4        | Solid  | 02/28/24 13:30 | 03/01/24 09:16 |
| 890-6296-7    | BH24-12 8        | Solid  | 02/28/24 15:20 | 03/01/24 09:16 |
| 890-6296-8    | BH24-13 0        | Solid  | 02/28/24 09:45 | 03/01/24 09:16 |
| 890-6296-9    | BH24-13 2        | Solid  | 02/28/24 09:55 | 03/01/24 09:16 |
| 890-6296-10   | BH24-14 0        | Solid  | 02/28/24 10:00 | 03/01/24 09:16 |
| 890-6296-11   | BH24-14 2        | Solid  | 02/28/24 10:05 | 03/01/24 09:16 |
| 890-6296-12   | BH24-15 0        | Solid  | 02/28/24 10:30 | 03/01/24 09:16 |
| 890-6296-13   | BH24-15 2        | Solid  | 02/28/24 10:40 | 03/01/24 09:16 |
| 890-6296-14   | BH24-17 0        | Solid  | 02/28/24 10:55 | 03/01/24 09:16 |
| 890-6296-15   | BH24-17 2        | Solid  | 02/28/24 11:00 | 03/01/24 09:16 |
| 890-6296-16   | BH24-18 0        | Solid  | 02/28/24 11:30 | 03/01/24 09:16 |
| 890-6296-17   | BH24-18 2        | Solid  | 02/28/24 11:45 | 03/01/24 09:16 |
| 890-6296-18   | BH24-19 0        | Solid  | 02/28/24 12:00 | 03/01/24 09:16 |
| 890-6296-19   | BH24-19 2        | Solid  | 02/29/24 12:15 | 03/01/24 09:16 |
| 890-6296-20   | BH24-20 0        | Solid  | 02/29/24 12:20 | 03/01/24 09:16 |
| 890-6296-21   | BH24-20 2        | Solid  | 02/29/24 12:30 | 03/01/24 09:16 |

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13

114

BH24-14 0' BH24-13 2' BH24-13 0' BH24-12 8' BH24-12 4' BH24-12 0' BH24-11 2' BH24-11 0' BH24-09 2'

Total 200.7 / 6010

200.8 / 6020:

Soil

02.28.24 02.28.24 02.28.24

10:00 9:55 9:45 15:20 13:3013.30

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8RCRA 13PPM

Texas 11

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Na Sr TI Sn U V Zn

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1631 / 245.1 / 7470

/7471

Soil

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Grab Grab Grab Grab

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Soil

02,27,24

Soil

02.28.24 02.27.24 02.27.24

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Soil

02.28.24

13:10

Grab Grab Grab Grab

1 × 1 1

Grab

Soil

02.28.24

Soil

02.28.24

ircle Method(s) and Metal(s) to be analyzed

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 Eurofins Xenco. A minimum charge of \$550 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 negotiate.

Received by: (Signature)

0

Relinquished-by: (Signature)

Received by (Signature)

Date/Time

A V

es. Signature of this document and relinquishment of semples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and condition

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

# Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 Chain of Custody

Midland TX (432) 704-5440 San Antonio TX (210) 509-3334 EL Paso TX (915) 585-3443, Lubbock, TX (806) 794-1296 lobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

|   |           |                     |        |           | ì   |
|---|-----------|---------------------|--------|-----------|-----|
|   | WWW.xe    | www.xenco.com       | Page   | 0         | لكر |
|   | W         | Work Order Comments | mments |           |     |
| Program: UST/PST PRP Brownfields RR Superfund | PRP       | Bramfields          | RR □   | Superfind |     |
| State of Project:                             | (         | ı                   |        |           |     |
| Reporting Level II Leve PSTJUST TRR Leve V    | revel III | PSTIUST             | TRR    | Leve      |     |

Incident #: NAPP2335431615

Work Order No: Cost Center #: 1055621001,

Page 50 of 54

BH24-09 0'

SAMPLE RECEIPT

amples Received Intact

Sample Custody Seals

Sample Identification

Matrix

Date Sampled Time

Sampled

(ft)

Comp

Cont

S S

0.4

=:±

2 0 Corrected Temperature Temperature Reading Correction Factor

oler Custody Seals

Yes Yes No

Yes emp Blank

No.

Thermometer ID

14/m00

Yes

No

Wet Ice

Yes No

BTEX (8021)

TPH 8015D(GRO / DRO /

MRO)

Chloride

890-6296 Chain of Custody

H2SO4 H2

NaOH Na

HNO3 HN

HOL HO

Door Coo

меОн ме DI Water H<sub>2</sub>O

I PO I I D

Zn Acetate+NaOH Zn

CH+Asporbic Add SAPC Sample Comments

va-S\_O, NaSO

MMSC. WABIS

TAT starts the day received by the lab. received by 4 30pm

Due Date

Rush

Code

Sampler's Name

MS

Project Name

roject Number roject Location

23E-05219

Mis Amigos Tank Battery

City State ZIP

Carlsbad NM, 88220 3101 Boyd Drive Vertex Resource Services

Email Turn Around

City State ZIP

Company Name Bill to (if different)

XTO Energy, Inc. XTO Energy, Inc.

3104 E. Greene St

CC Scarttar a vertex ca and permian a vertex ca for Final Report

ANALYSIS REQUEST

Deliverables EDD Reporting Level II

ADaPT \_

None NO

Preservative Codes Other PSINCE

TRR

Leve

Carlsbad NM, 88220

ddress Company Name roject Manager

Sally Carttar (SCatter a vertex.ca)

CC: Scarttar@vertex.ca for Final Report

Kenco

eurofins :

**Environment Testing** 

BH24-19 2' BH24-19 0'

Soil Soil Soil SOF Soil

02.29.24

12:15 12:00 11:30 11:00 10:55 10:40

02.29.24 02.29.24

11:45

Soil

12:20

BH24-18 2'

31124 180

BH24-17 0' BH24-15 2' BH24-15 0'

Soil Soil Soil

02.29.24 02.28.24 02.28.24 02.28.24

02.29.24

BH24-20 0'

Total 200.7 / 6010

200.8 / 6020:

ircle Method(s) and Metal(s) to be analyzed

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 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 circums

Signature)

Signature of this document and relinquishment of samples constitutes a valid purchase order from cliant company to Eurofins Xenco, its affiliates and subcontractors. It assigns stands

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo N

BH24-14 2'

otal Containers Sample Custody Seals

Sample Identification

Matrix | Date Sampled Time

Sampled

(a) Depth

10:30

10:05

SAMPLE RECEIPT
Samples Received Intact

Yes No

Wet Ice

received by 4 30pm

TAT starts the day received by the lab

Due Date:

ooler Custody Seals

Yes No Yes

Temperature Reading Correction Factor hermometer ID

Corrected Temperature

8 NIA

Sampler's Name

roject Location

roject Number

23E-05219

Mis Amigos Tank Battery

Routine

Turn Around Email

City State ZIP

hone oject Name

Company Name roject Manager

eurofins 🔆 **Environment Testing** Xenco

CC: Scarttar@vertex.ca for Final Report

Sally Caritar (SCatter a vertex ca)

Vertex Resource Services

01 Boyd Drive

# Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 Chain of Custody

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

|                     |               |                            | <  |
|---------------------|---------------|----------------------------|--|
| What Order Comments | www.xenco.com | Incident #:                | Vork Order No: C                         |
| ommonto.            | Page 2        | Incident #: NAPP2335431615 | Work Order No: Cost Center #: 1055621001 |
|                     | ٨             |                            | 621001,                                  |

|  |                        |              |                               |                    |           |             |                               |            | ]                |                    | CWWW     | www.xenco.com                  | Page  | 2   |                  |
|--|------------------------|--------------|-------------------------------|--------------------|-----------|-------------|-------------------------------|------------|------------------|--------------------|----------|--------------------------------|---|---|------------------|
| Company Name   | ne l                   | X 2          | XTO Energy, Inc.              | gy, Inc            |           |             |                               |            | Progra           | Program: UST/PST   | 36       | PRP Brawnfields RR             | <b>%</b>                                      | Superfund                                 |                  |
| Address  |                        | 310          | 4E G                          | 3104 E. Greene St  |           |             |                               |            | State o          | State of Project:  | 1        |                                |   |   | )                |
| City State ZIP   | Ÿ                      | Car          | Isbad N                       | Carlsbad NM, 88220 | 20        |             |                               |            | Report           | Reporting Lavel II | Eyel III | PSTJUST TRR                    | TRR _   | Leve                                      |                  |
| CC Scarttar a vertex ca and permian a vertex ca for Final Report   | a vertex               | ca and       | permia                        | na vert            | ex ca f   | or Fina     | Repor                         |            | Deliver          | Deliverables EDD   |          | ADaPT                          |   | Other                                     |                  |
| round  |                        | +            |                               |                    |           |             | ANAL                          | YSIS R     | ANALYSIS REQUEST |                    |          |                                | Pres  | Preservative Codes                        | un en            |
| Rush   | Pres.<br>Code          | ¥ 3          |                               |                    |           |             |                               |            |                  |                    |          |                                | None NO                                       | DI Water H <sub>2</sub> O                 | H <sub>2</sub> O |
| ay received by the lab. if   | ne lab if              | 21)          | DRO /                         |                    |           |             |                               |            |                  |                    |          |                                | H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> | MeOH Me<br>HNO <sub>3</sub> HN<br>NaOH Na | Z Z M            |
| Yes No   |                        | (80          | 07                            |                    |           |             |                               |            | _                |                    |          |                                | 1,00, 10                                      |   |                  |
| MMC  | β                      | EX           | GR                            | RO)<br>orid        |           |             |                               |            |                  |                    |          |                                | NaMSOL NABIS                                  | 6 m                                       |                  |
| -C. Z  | mete                   |              | 15D                           | -                  |           |             |                               |            |                  |                    |          |                                | Zn Acetate+NaOH Zn                            | NaOH Zn                                   |                  |
| 200  | Para                   |              | 80                            |                    |           |             |                               |            |                  |                    |          |                                | NECHHASO                                      | NACHHABOORDIC ADID SAPO                   |                  |
| Depth o  | Grab/ # of<br>Comp Com | # of<br>Cont | TPH                           |                    |           |             |                               |            |                  |                    |          |                                | Samı  | Sample Comments                           |                  |
| 2 6  | Grab                   | ×            | ×                             | X                  |           |             |                               |            |                  |                    |          |                                |   |   |                  |
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| _  | Grab                   | ×            | +                             | +                  |           |             |                               | +          | +                | +                  | ł        |                                |   |   |                  |
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| 0 Grab   | Grab                   | B ~          | 찓                             | X X X              | 3         | T 0         | Ph Ma Ma No Ni K              | \$<br>     | &                | Ad SiQ. N          | Na Sr TI | Sr TI Sn U V Zn                |   |   |                  |
| 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U   | RA Sb                  | As Ba E      | 3e Cd                         | Cr Co              | Cu Pb     | Mn Mo       | Ni Se                         | e Ag T     |                  |                    |          | Hg: 1631 / 245.1 / 7470 / 7471 | 5.1 / 7470                                    | /7471                                     |                  |
| m cleant company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and commissions with for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control | to Eurofins            | s incurred l | ffiliates and<br>by the clien | d subcontr         | osses are | assigns st  | umstance                      | s beyond t | he control       |                    |          |                                |   |   |                  |
| th sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated   | ed to Eurofir          | 18 Xenco, b  | ut not anal                   | yzed. Thes         | e terms w | il be enfor | ced unies                     | s previous | y negotiated.    |                    |          | ò                              |   |   |                  |
| (e)  |                        | Da           | Date/Time                     |                    | 2 4       | iduisiid    | Reilliquistied by (Signature) | naific     | 0                | - 6                | 001400   | received by (Oightune)         |   |   |                  |
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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

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Date/Time

Relinquished by: (Signature)

Received by (Signature)

Date/Time

service. Eurofina 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

otice. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofina Xenco, its affiliates and subcontractors, it assigns standard terms and conditions

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb

Mg Mn Mo Ni K Se

Ą

SiO<sub>2</sub> Na

ģ

TI Sn

V Zn

Hg: 1631 / 245 1 / 7470 / 7471

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

ircle Method(s) and Metal(s) to be analyzed

otal 200.7 / 6010

200.8 / 6020:

eurofins: CC: Scarttar@vertex.ca for Final Report **Environment** Testing

# Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 Chain of Custody

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

| N | Incident #: NAPP2335431615 | Work Order No: Cost Center #: 105562100 |
|---|----------------------------|---|
| N | 51                         | 621001,                                 |
|   |                            |   |

| Work Order Comments | www.xenco.com | וווכושפור די                   |
|---------------------|---------------|--------------------------------|
| omments             | Page 3 of 3   | ICIGGIC F. ISST - POCOTO 10 10 |

Zn Acetate+NaOH Zn

HARRONDIC ACID SAFE

Sample Comments

a.S.O. NaSO JAMSO, NABIS

BH24-20 2'

Samples Received Intact SAMPLE RECEIPT

Sample Custody Seals Cooler Custody Seals

Yes No Yes

No

Correction Factor Temperature Reading

Thermometer ID

Yes

No

Wet Ice

Yes No

BTEX (8021) TPH 8015D(GRO / DRO / MRO) Chloride

> H<sub>2</sub>SO<sub>2</sub> H<sub>2</sub> HOT HO

> > MeOH Me

NaOH Na

otal Containers

Sample Identification

Matrix

Date Sampled Time

Sampled

(n)

cont

Corrected Temperature

Soil

02.29.24

12:30

Grab Comp Grab/ Sampler's Name

MS

Due Date

TAT starts the day received by the lab, received by 4 30pm

oject Location

Project Number

roject Name

Mis Amigos Tank Battery

Routine

Rush

Code

Turn Around

City. State ZIP Address Company Name Bill to (if different)

Email CC Scarttar a vertex ca and permian a vertex ca for Final Report

**ANALYSIS REQUEST** 

Deliverables EDD Reporting Level II State of Project:

ADaPT []

None NO

DI Water H₂O

Preservative Codes

fere ≡

PSIJUST

TRR \_

Leve

₹ □

Supernand

Carlsbad NM. 88220

XTO Energy, Inc.

Program: UST/PST

XTO Energy, Inc. 3104 E Greene St

23E-05219

City State ZIP

Carlsbad NM, 88220 3101 Boyd Drive Company Name Project Manager

Vertex Resource Services

Sally Carttar (SCatter a vertex ca)

ddress

# **Login Sample Receipt Checklist**

Client: Vertex Job Number: 890-6296-1 SDG Number: 23E-05219

Login Number: 6296 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    |                                     |

2

3

4

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12

14

3/8/2024

## **Login Sample Receipt Checklist**

Client: Vertex Job Number: 890-6296-1 SDG Number: 23E-05219

Login Number: 6296
List Source: Eurofins Midland
List Number: 2
List Creation: 03/04/24 12:22 PM

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    |         |

1/1 0J 102

#### **Environmental Site Remediation Work Plan**



#### **General Information**

**NMOCD District:** Incident ID: 1 – Hobbs nAPP2335431615 Landowner: State Client: XTO Energy Site Location: Mis Amigos Tank Battery Date: 23E-05219-02 March 13, 2024 Project #: Phone #: Client Contact: Amy Ruth 432.661.0571 Vertex PM: Sally Carttar Phone #: 575.361.3561

## **Objective**

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address these areas. Areas of environmental concern were identified and delineated between and around the separators west of the battery as shown on Figure 1 (Attachment 1). Closure criteria have been selected as per New Mexico Administrative Code 19.15.29. All applicable research as it pertains to closure criteria selection is presented in Attachment 2. The closure criteria for the site are presented below.

| 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 = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

#### Site Assessment/Characterization

Site characterization was completed on February 29, 2024. A total of 20 sample points were established, from which samples were collected for field screening. As the depth to groundwater was greater than 110 ft, vertical delineation was not required. Samples below strictest closure criteria were submitted to the laboratory for analysis. In total, 44 samples were submitted to Eurofins Environment Testing, Carlsbad, New Mexico, for analysis. The sample locations are presented in Attachment 1. Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Attachment 3. Exceedances are identified in the table as bold with a grey background.

#### **Remedial Activities**

#### General

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. Soil will be excavated to the extents of the known contamination or in 2 foot increments, whichever is less. Field screening will be utilized to confirm removal of contaminated soil below the applicable closure criteria. Contaminated soils will be stored on a 30 mil liner prior to disposal at an approved facility. Once excavation is complete, confirmatory samples will be

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BTEX – Benzene, toluene, ethylbenzene, and xylenes

#### **Environmental Site Remediation Work Plan**



collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally.

Two sample points were established in the area between the separators. Surface samples exceeded criteria at both points, so the area will be scraped to 0.5 ft below ground surface (bgs) to remove staining and surface contamination. Vertex Resource Services Inc. will request a deferral for any contamination at BH24-12 below 0.5 ft bgs due to proximity to production equipment. This area will be fully remediated upon abandonment of the Mis Amigos Tank Battery. Eighteen sample points were established on the pad surrounding the separators to define the horizontal extents of the release impacts. Soil will be excavated at a planned depth of 1 foot around sample points BH24-15, BH24-16, BH24-17, and BH24-20. A hydrovac truck will daylight all buried lines near the release area, per XTO Energy policy. The excavation on the open pad will be completed using heavy equipment, and the 0.5 ft depth excavation areas between the separators will be dug by hand. Field screening will be utilized to ensure that the walls and bases of all excavation areas meet New Mexico Oil Conservation Division (NMOCD) criteria for releases >100 ft depth to groundwater. Confirmatory samples will be collected as per NMOCD guidance and submitted for laboratory analysis of all applicable parameters. The estimated volume to be excavated is 190 cubic yards, and the remediation is expected to be completed within 30 days of the approval of this workplan.

| Sample Point | Excavation Depth (ft.) | Remediation Method |
|--------------|------------------------|--------------------|
| BH24-11      | 0.5                    | Handcrew           |
| BH24-12      | 0.5                    | Handcrew           |
| BH24-15      | 1                      | Backhoe            |
| BH24-16      | 1                      | Backhoe            |
| BH24-17      | 1                      | Backhoe            |
| BH24-20      | 1                      | Backhoe            |

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.361.3561 or scarttar@vertex.ca.

| Sally Carttar                  | March 18, 2024 |  |
|--------------------------------|----------------|--|
| Sally Carttar BA               | Date           |  |
| PROJECT MANAGER, REPORT REVIEW |                |  |

#### **Attachments**

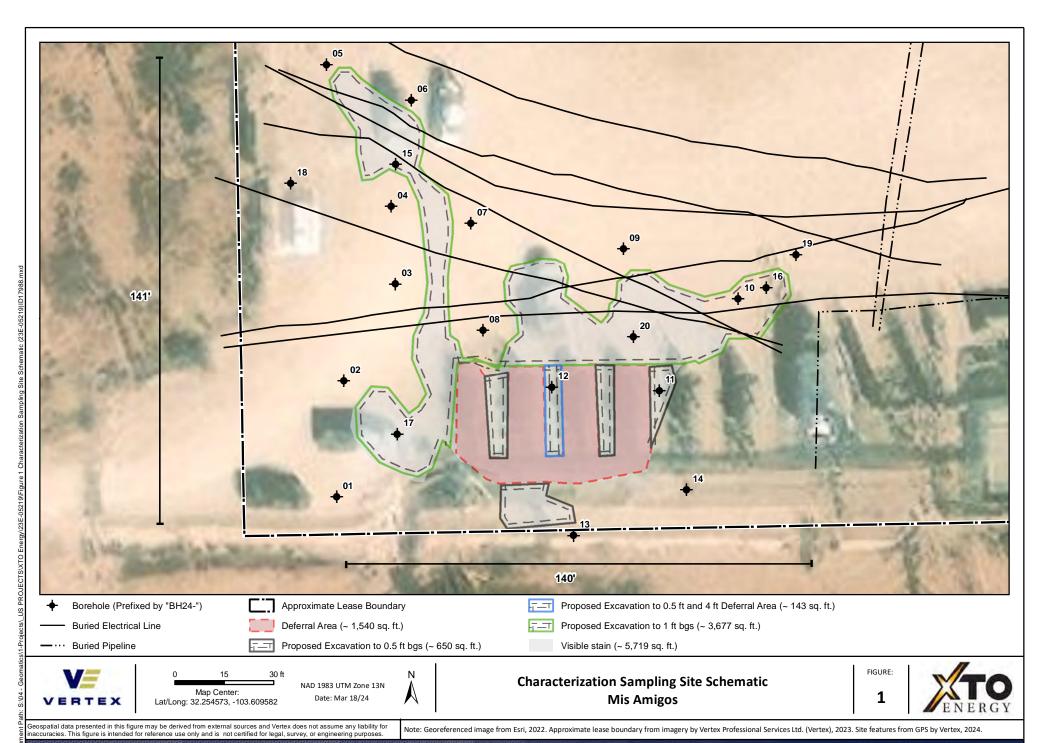
Attachment 1. Characterization Sampling Site Schematic

Attachment 2. Closure Criteria Research

Attachment 3. Initial Characterization Sample Field Screen and Laboratory Results Table and Laboratory Data Reports

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# **ATTACHMENT 1**



Released to Imaging: 4/16/2024 2:38:45 PM

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

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

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

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

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

QUESTIONS

Action 324387

#### **QUESTIONS**

| ı | Operator:              | OGRID:   |
|---|------------------------|--|
| ı | XTO ENERGY, INC        | 5380   |
| ı | 6401 Holiday Hill Road | Action Number:   |
| ı | Midland, TX 79707      | 324387   |
| ı |                        | Action Type:   |
| ı |                        | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

#### QUESTIONS

| Prerequisites    |  |
|------------------|--|
| Incident ID (n#) | nAPP2335431615                             |
| Incident Name    | NAPP2335431615 MIS AMIGOS TANK BATTERY @ 0 |
| Incident Type    | Produced Water Release                     |
| Incident Status  | Remediation Plan Received                  |

| Location of Release Source                     |                         |
|--|-------------------------|
| Please answer all the questions in this group. |                         |
| Site Name                                      | MIS AMIGOS TANK BATTERY |
| Date Release Discovered                        | 12/18/2023              |
| 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: Corrosion   Other (Specify)   Produced Water   Released: 7 BBL   Recovered: 6 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 III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

# **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 324387

| Phone:(505) 476-3470 Fax:(505) 476-3462   |  |  |
|---|--|--|
| QUESTIONS (continued)   |  |  |
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707  | OGRID:   |  |
| 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.  | e. gas only) are to be submitted on the C-129 form.  |  |
| Initial Response  The responsible party must undertake the following actions immediately unless they could create a s   | afety hazard that would result in injury.  |  |
| 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.  |  |
|   | ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of<br>led or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of<br>valuation in the follow-up C-141 submission.   |  |
| to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a | knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or |  |

Name: Melanie Collins Title: Regulatory Analyst

Date: 12/20/2023

Email: Melanie.Collins@exxonmobil.com

I hereby agree and sign off to the above statement

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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 324387

**QUESTIONS** (continued)

| Operator:              | OGRID:   |
|------------------------|--|
| XTO ENERGY, INC        | 5380   |
| 6401 Holiday Hill Road | Action Number:   |
| Midland, TX 79707      | 324387   |
|                        | Action Type:   |
|                        | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

#### 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   | NM OSE iWaters Database Search |  |
| 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 1 and 5 (mi.)          |  |
| 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                             |  |

| rided to the appropriate district office no later than 90 days after the release discovery date.                          |
|---|
| Yes   |
| mination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.             |
| Yes   |
| No  |
| n, in milligrams per kilograms.)  |
| 15244   |
| 60.7  |
| 60.7  |
| 0   |
| 0   |
| empleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, |
| 03/18/2024  |
| 06/18/2024  |
| 06/18/2024  |
| 5233.8  |
| 190   |
| 5233.8  |
| 190   |
| on at the time of submission and may (be) change(d) over time as more remediation efforts are completed.                  |
| ייי   |

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 324387

**QUESTIONS** (continued)

| Operator:              | OGRID:   |
|------------------------|--|
| XTO ENERGY, INC        | 5380   |
| 6401 Holiday Hill Road | Action Number:   |
| Midland, TX 79707      | 324387   |
|                        | Action Type:   |
|                        | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

#### 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  | R360 Artesia LLC LANDFARM [fEEM0112340644] |  |
| OR which OCD approved well (API) will be used for off-site disposal   | Not answered.                              |  |
| OR is the off-site disposal site, to be used, out-of-state  | Not answered.                              |  |
| OR is the off-site disposal site, to be used, an NMED facility  | Not answered.                              |  |
| (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)  | Not answered.                              |  |
| (In Situ) Soil Vapor Extraction   | Not answered.                              |  |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)   | Not answered.                              |  |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)  | Not answered.                              |  |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)  | Not answered.                              |  |
| Ground Water Abatement pursuant to 19.15.30 NMAC  | Not answered.                              |  |
| OTHER (Non-listed remedial process)   | Not answered.                              |  |

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: Alan Romero Title: Regulatory Analyst

Email: alan.romero1@exxonmobil.com

Date: 03/18/2024

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

QUESTIONS, Page 5

Action 324387

**QUESTIONS** (continued)

| Operator:              | OGRID:   |  |
|------------------------|--|--|
| XTO ENERGY, INC        | 5380   |  |
| 6401 Holiday Hill Road | Action Number:   |  |
| Midland, TX 79707      | 324387   |  |
|                        | Action Type:   |  |
|                        | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |  |

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

QUESTIONS, Page 6

Action 324387

| QUESTIONS | (continued) |
|-----------|-------------|
|           |             |

| Operator:              | OGRID:   |
|------------------------|--|
| XTO ENERGY, INC        | 5380   |
| 6401 Holiday Hill Road | Action Number:   |
| Midland, TX 79707      | 324387   |
|                        | Action Type:   |
|                        | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

#### QUESTIONS

| Sampling Event Information  |            |
|---|------------|
| Last sampling notification (C-141N) recorded  | 325805     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 04/04/2024 |
| What was the (estimated) number of samples that were to be gathered                             | 25         |
| What was the sampling surface area in square feet   | 5000       |

| 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 No  |  |

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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** 

CONDITIONS

Action 324387

#### **CONDITIONS**

| Operator:  | OGRID:   |
|--|--|
| XTO ENERGY, INC  | 5380   |
| 6401 Holiday Hill Road<br>Midland, TX 79707  | Action Number: 324387                                    |
| , and the second | Action Type:   |
|  | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

#### CONDITIONS

| Created By    | Condition  | Condition<br>Date |
|---------------|--|-------------------|
| scott.rodgers | The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed. | 4/16/2024         |