Page 1 of 110

Incident ID nAB1922539866

District RP
Facility ID
Application ID

Remediation Plan

| Remediation Plan Checklist: Each of the following items must b | e included in the plan. |
|--|--|
| ✓ Detailed description of proposed remediation technique ✓ Scaled sitemap with GPS coordinates showing delineation poin ✓ Estimated volume of material to be remediated ✓ Closure criteria is to Table 1 specifications subject to 19.15.29. ✓ Proposed schedule for remediation (note if remediation plan tin | 12(C)(4) NMAC |
| <u>Deferral Requests Only</u> : Each of the following items must be con | nfirmed as part of any request for deferral of remediation. |
| Contamination must be in areas immediately under or around p deconstruction. | roduction equipment where remediation could cause a major facility |
| Extents of contamination must be fully delineated. | |
| Contamination does not cause an imminent risk to human healt | h, the environment, or groundwater. |
| | e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of |
| Printed Name: Ike Tavarez | Title: Senior HSE Supervisor |
| Signature: _//4 B | Date:3/2/2021 |
| email: itavarez@concho.com | Telephone: (432)685-2573 |
| OCD Only | |
| Received by: Cristina Eads | Date:03/02/2021 |
| ☐ Approved | Approval |
| Signature: Furture | Date: 06/30/2021 |

Site Characterization Report & Deferral Request (Revised)

COG Operating, LLC Wild Ride Federal #001H

Eddy County, New Mexico
Unit Letter E, Section 29, Township 26 South, Range 25 East
Latitude 32.01648 North, Longitude 104.42426 West
NMOCD Reference No. nAB1922539866

Prepared By:

Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway Lovington, New Mexico 88260

Joel W. Lowry

Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Lovington • Lafayette

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Figure 3 - Site & Sample Location Map

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Appendix B - Field Data & Soil Profile Logs

Appendix C - Laboratory Analytical Reports

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Appendix E - Multimedia Exposure Assessment Model (MULTIMED)

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this *Site Characterization Report & Deferral Request (Revised)* for the release site known as the Wild Ride Federal #001H (henceforth, "Site"). Details of the release are summarized below:

| Location of Release Source | | | | |
|---|--|--------------------------------|---|--|
| Latitude: | 32.01648 | Longitude: | -104.42426 | |
| | Pro | vided GPS are in WGS84 format | | |
| Site Name: | Wild Ride Federal #001H | Site Type: | Tank Battery | |
| Date Release Discov | ered: 7/22/2019 | API # (if applica | ble): 30-015-36678 | |
| Unit Letter S | Section Township | Range | County | |
| E | 29 26S | 25E | Eddy | |
| Surface Owner: | | al Private (Namand Volume of R | | |
| Crude Oil | Volume Released (bbls) | | Volume Recovered (bbls) | |
| X Produced Water Volume Released (bbls) 33 Volume Released (bbls) | | | Volume Recovered (bbls) 31 | |
| | Is the concentration of tot (TDS) in the produced wa | | X Yes No N/A | |
| Condensate | Volume Released (bbls) | | Volume Recovered (bbls) | |
| Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) | | | | |
| Other (describe) Volume/Weight Released Volume/Weight Recovered | | | | |
| Cause of Release: The release was attricontainment. | ibuted to lightning striking th | ne water tank. The relea | ase was confined within the lined | |
| | | Initial Response | | |
| X The source of th | e release has been stopped. | | | |
| X The impacted are | a has been secured to protect h | uman health and the env | rironment. | |
| X Release material | s have been contained via the u | use of berms or dikes, ab | sorbent pad, or other containment devices | |
| X All free liquids a | nd recoverable materials have l | been removed and manag | ged appropriately | |

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data, published information, geology, and topography. The change in elevation between the Site and the nearest USGS well west of the Site (-187 feet) and the natural drainage north of the Site (-45.9 feet) where groundwater is not outcropping was considered to assist in the determination. Additionally, the Site is located within the Castille Formation. Drilling Logs from water wells in the vicinity suggest that they were completed within alluvial and bolson deposits. Depth to groundwater information is provided in Appendix A.

| What is the shallowest depth to groundwater beneath the area affected by the release? | > 45' |
|---|----------|
| Did the release impact groundwater or surface water? | Yes X No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | Yes X No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark? | Yes X No |
| Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church? | Yes X No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | Yes X No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | Yes X No |
| Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field? | Yes X No |
| Are the lateral extents of the release within 300 feet of a wetland? | Yes X No |
| Are the lateral extents of the release overlying a subsurface mine? | Yes X No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | X Yes No |
| Are the lateral extents of the release within a 100-year floodplain? | Yes X No |
| Did the release impact areas not on an exploration, development, production or storage site? | X Yes No |

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Site are as follows:

| Probable Depth to Groundwater | Constituent | Method | Closure Criteria | Reclamation Standard* |
|----------------------------------|-----------------------|-----------------------------------|------------------|--------------------------|
| | Chloride | EPA 300.0 or SM4500 Cl B | 600 mg/kg | 600 mg/kg |
| | TPH (GRO + DRO + MRO) | EPA SW-846 Method 8015M Ext | 100 mg/kg | 100 mg/kg |
| > 45' | DRO + GRO | EPA SW-846 Method 8015M | - | - |
| | BTEX | EPA SW-846 Methods 8021b or 8260b | 50 mg/kg | 50 mg/kg |
| | Benzene | EPA SW-846 Methods 8021b or 8260b | 10 mg/kg | 10 mg/kg |

^{*} The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas.

4.0 SITE INVESTIGATION

During initial response activities, the affected tank and impacted gravel was removed from within the lined tank battery containment area. Following removal of the affected gravel, a liner inspection was conducted. During the liner inspection it was determined that the liner was intact, with the exception of three (3) areas on the firewall inferred to have been melted by the subject fire above the high water mark.

On August 10, 2020, Etech revisited the Site. During the site visit, access holes were cut into the liner to allow for the advancement of hand-augered soil bores on the west and east sides of the lined tank battery containment. During the advancement of the hand-augered soil bores, four (4) soil samples (8.10 SP1 @ Surface, 8.10 SP1 @ 1', 8.10 SP2 @ Surface, and 8.10 SP2 @ 1') were collected. In addition, a hand-augered soil bore (8.10 SP3) was advanced within the lined containment in an area that was inferred to have been melted by the subject fire. During the advancement of the hand-augered soil bore, two (2) soil samples (8.10 SP3 @ Surface, and 8.10 SP3 @ 1') were collected. The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples, with the exceptions of soil samples 8.10 SP1 @ Surface and 8.10 SP3 @ Surface, which exhibited chloride concentrations of 1,170 mg/kg and 1,450 mg/kg, respectively. Laboratory analytical results indicated soil was not impacted above the NMOCD Closure Criteria beyond one (1) foot below ground surface (bgs) in the areas characterized by sample points 8.10 SP1 and 8.10 SP2.

On September 16, 2020, based on laboratory analytical results and field observations, COG submitted a *Site Characterization Report & Deferral Request* to the NMOCD and BLM requesting approval to defer remediation of impacted soil affected above the NMOCD Closure Criteria beneath the lined tank battery facility. The request was subsequently denied by the NMOCD, with the mandate to perform a more thorough site investigation and collect additional soil samples from multiple locations at 1-foot intervals to a minimum depth of four (4) feet bgs.

On January 27, 2021, Etech revisited the Site. In accordance with NMOCD directives, three (3) hand-augered soil bores (SP1, SP2, and SP3) were advanced in the areas characterized by sample points 8.10 SP1, 8.10 SP2, and 8.10 SP3 to total depths of four (4) feet bgs each. During the advancement of the hand-augered soil bores, nine (9) soil samples (SP1 @ 2' through SP1 @ 4', SP2 @ 2' through SP2 @ 4', and SP3 @ 2' through SP3 @ 4') were collected and field-screened utilizing olfactory/visual senses and a chloride test kit. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples, with the exception of soil sample SP3 @ 3', which exhibited a chloride concentration of 953 mg/kg.

Review of laboratory analytical results indicated the vertical extent of impacted soil was adequately delineated and confirmed that soil impacts did not extend beyond one (1) foot bgs in the areas characterized by sample points 8.10 SP1 and 8.10 SP2. Soil impacts did not extend beyond three (3) feet bgs in the area characterized by sample point 8.10 SP3.

A "Site & Sample Location Map" is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data and soil profile logs are provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the release site are provided in Appendix D.

5.0 DEFERRAL REQUEST

The chloride contamination in the areas characterized by sample points 8.10 SP-1 through 8.10 SP3 has been vertically delineated and does not extend beyond one (1) foot bgs in sample points 8.10 SP1 and 8.10 SP2 or beyond three (3) feet bgs in sample point 8.10 SP3. Etech utilized the Environmental Protection Agency's (EPA) Multimedia Exposure Assessment Model (MULTIMED) to determine if the contamination remaining in-situ poses a threat to groundwater quality. The most appropriate and conservative parameters possible for the Site and karst/limestone were used for the assessment model in regard to depth to groundwater (40 feet), contaminant concentration (1,450 mg/kg, the maximum observed), porosity (0.13), saturated hydraulic conductivity (1 m/day), etc. The model indicates that the peak concentration of chloride in the underlying groundwater contributed by the in-situ contamination under the lined containment area would be approximately 70.77 mg/L in 220 years, versus 481.9 mg/L in 65.6 years if the containment area was not lined (see Appendix E).

Since the estimated increase in chloride concentration is below the New Mexico Water Quality Control Commission (NMWQCC) standard of 250.0 mg/L specified in Section 20.6.2.3103 B.(1) of the New Mexico Administrative Code (NMAC), leaving the contamination in-situ "does not cause an imminent risk to human health, the environment, or ground water", pursuant to NMAC Section 19.15.29.12.C(3).

Based on the information presented above, Etech recommends COG Operating, LLC, provide copies of this *Site Characterization Report & Deferral Request (Revised)* to the appropriate agencies and cease remediation activities at the Site. Remediation of impacted soil affected above the NMOCD Closure Criteria remaining in-situ beneath the lined tank battery facility will be completed upon abandoning and decommissioning the facility.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

The release was limited to an active tank battery facility on a production pad. Final reclamation and re-vegetation will be conducted in accordance with NMAC Section 19.15.29.13 upon decommissioning the facility.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Site Characterization Report & Deferral Request (Revised)* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Basis has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of COG Operating, LLC. Use of the information contained in this report is prohibited within the consent of Etech and/or COG Operating, LLC.

8.0 DISTRIBUTION

COG Operating, LLC 600 West Illinois Avenue Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

United States Department of the Interior Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220

(Electronic Submission)

Figure 1 Topographic Map

Figure 2 Aerial Proximity Map

Figure 3 Site & Sample Location Map



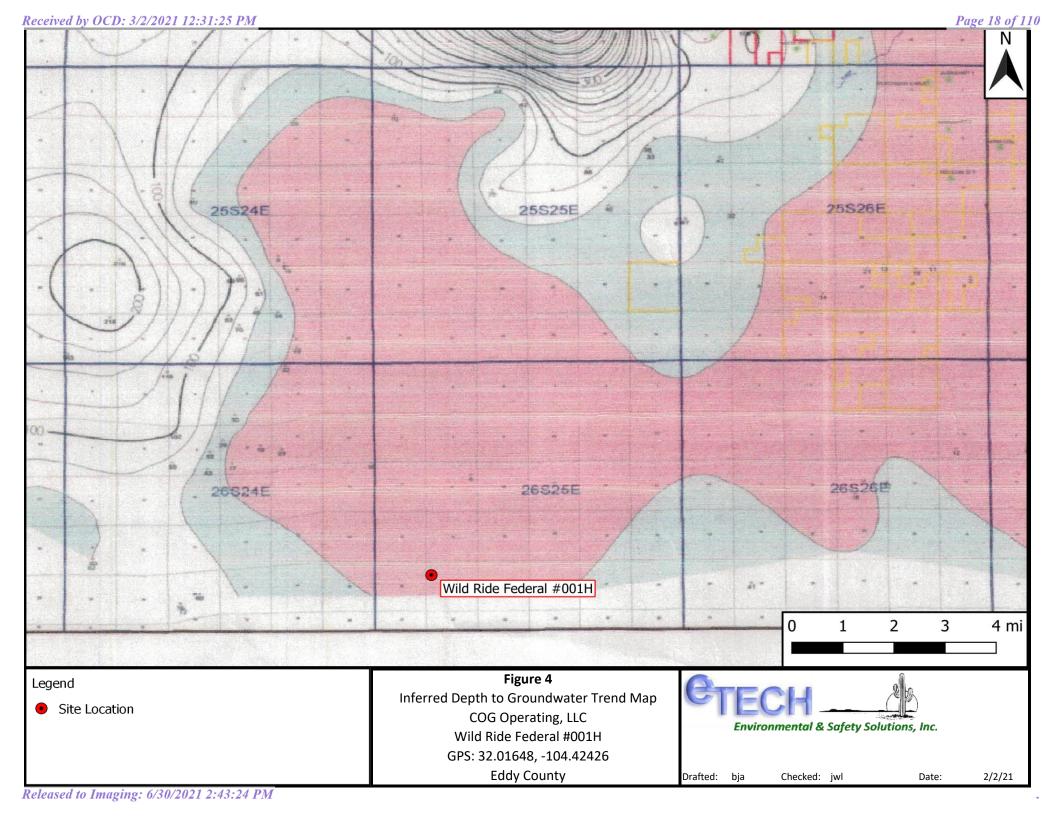
Table 1 Concentrations of BTEX, TPH & Chloride in Soil

TABLE 1 CONCENTRATIONS OF BTEX, TPH & CHLORIDE IN SOIL COG Operating, LLC Wild Ride Federal #001H

NMOCD Ref. #: nAB1922539866

| | | | | NMOCD | Ref. #: nA | AB192253 | 9866 | | | | |
|--------------------|---------------|--------|----------------|--------------------|-------------------|---|--|--|--|---|---------------------|
| NMOCI | D Closure Cri | teria | | 10 | 50 | • | - | - | - | 100 | 600 |
| NMOCD R | eclamation St | andard | | 10 | 50 | - | - | - | - | 100 | 600 |
| | | | | SW 840 | 6 8021B | | SW | 846 8015M | Ext. | | 4500 Cl |
| Sample ID | Date | Depth | Soil Status | Benzene (mg/kg) | BTEX (mg/kg) | GRO C ₆ -C ₁₀ (mg/kg) | DRO C ₁₀ -C ₂₈ (mg/kg) | GRO + DRO C ₆ -C ₂₈ (mg/kg) | ORO C ₂₈ -C ₃₆ (mg/kg) | TPH C ₆ -C ₃₆ (mg/kg) | Chloride (mg/kg) |
| 8.10 SP1 @ Surface | 8/10/2020 | 0' | In-Situ | < 0.00202 | 0.00835 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 1,170 |
| 8.10 SP1 @ 1' | 8/10/2020 | 1' | In-Situ | < 0.00201 | < 0.00201 | < 50.0 | < 50.0 | < 50.0 | < 50.0 | < 50.0 | 581 |
| 8.10 SP2 @ Surface | 8/10/2020 | 0' | In-Situ | < 0.00198 | 0.00635 | < 50.0 | < 50.0 | < 50.0 | < 50.0 | < 50.0 | 13.1 |
| 8.10 SP2 @ 1' | 8/10/2020 | 1' | In-Situ | 0.00255 | 0.01040 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 58.3 |
| 8.10 SP3 @ Surface | 8/10/2020 | 0' | In-Situ | < 0.00199 | 0.00529 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,450 |
| 8.10 SP3 @ 1' | 8/10/2020 | 1' | In-Situ | < 0.00199 | 0.00479 | < 50.0 | < 50.0 | < 50.0 | < 50.0 | < 50.0 | 14.0 |
| SP1 @ 2' | 1/27/2021 | 2' | In-Situ | < 0.00201 | < 0.00201 | < 50.0 | <50.0 | <50.0 | < 50.0 | < 50.0 | 16.6 |
| SP1 @ 3' | 1/27/2021 | 3' | In-Situ | < 0.00201 | < 0.00201 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 47.2 |
| SP1 @ 4' | 1/27/2021 | 4' | In-Situ | < 0.00200 | < 0.00200 | < 50.0 | < 50.0 | < 50.0 | < 50.0 | < 50.0 | 53.5 |
| SP2 @ 2' | 1/27/2021 | 2' | In-Situ | < 0.00200 | < 0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 21.4 |
| SP2 @ 3' | 1/27/2021 | 3' | In-Situ | < 0.00200 | < 0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 53.6 |
| SP2 @ 4' | 1/27/2021 | 4' | In-Situ | < 0.00200 | < 0.00200 | < 50.0 | < 50.0 | < 50.0 | < 50.0 | < 50.0 | 53.6 |
| SP3 @ 2' | 1/27/2021 | 2' | In-Situ | < 0.00200 | < 0.00200 | < 50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 523 |
| SP3 @ 3' | 1/27/2021 | 3' | In-Situ | < 0.00199 | < 0.00199 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 953 |
| SP3 @ 4' | 1/27/2021 | 4' | In-Situ | < 0.00200 | < 0.00200 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 56.9 |

Appendix A Depth to Groundwater Information





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

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

4 4 4 21 26S 05E

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

Water

376 feet

POD

QQQ Subbasin County 64 16 4 Sec Tws Rng Code

X 553806 3543254 DistanceDepthWellDepthWater Column 1019 520

Average Depth to Water:

Minimum Depth: 376 feet

Maximum Depth: 376 feet

Record Count: 1

8/19/20 1:16 PM

POD Number

HU 00339 POD1

UTMNAD83 Radius Search (in meters):

Easting (X): 554372.39 Radius: 1610 **Northing (Y):** 3542407.21

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.

WATER COLUMN/ AVERAGE DEPTH TO

WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

520 feet

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number HU 00339 POD1 Q64 Q16 Q4 Sec Tws Rng

X

4 4 21 26S 05E 553806 3543254

Driller License:

Well Tag

Driller Company:

Driller Name: UNKNOWN

Drill Finish Date:

12/31/1931 Plug Date:

Drill Start Date: Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

6.50

Depth Well:

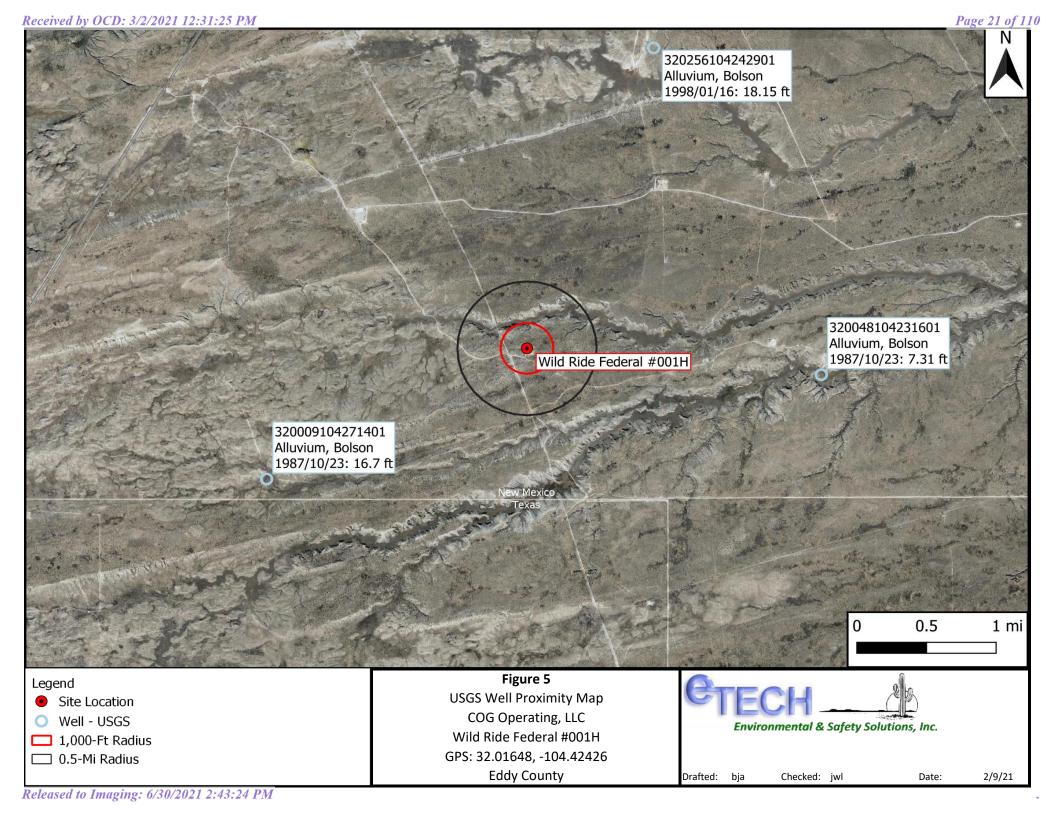
Depth Water:

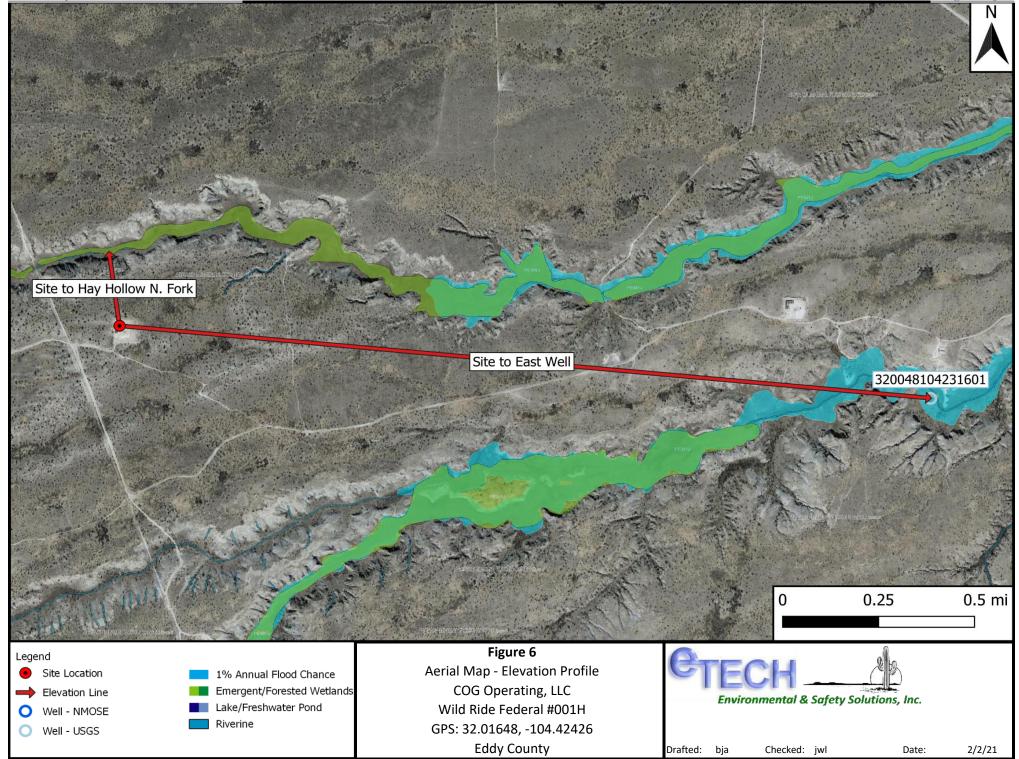
376 feet

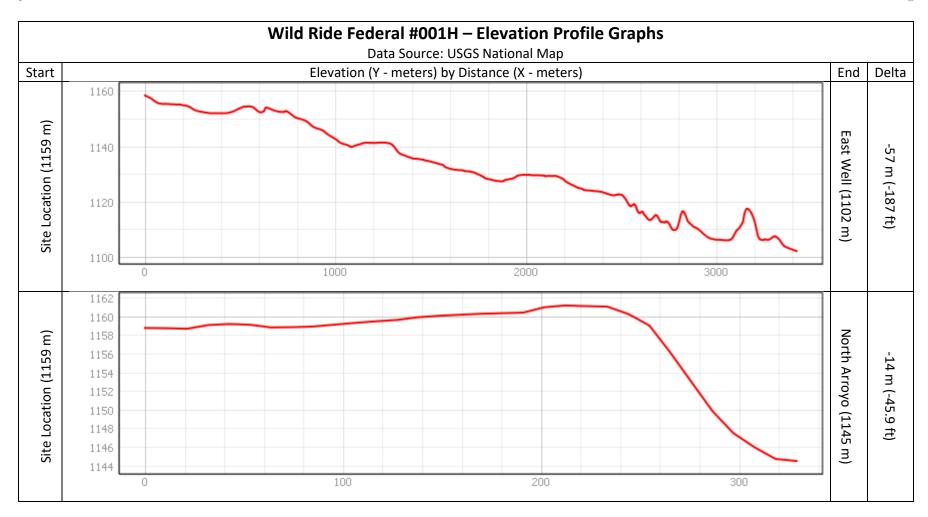
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/19/20 1:17 PM

POINT OF DIVERSION SUMMARY









USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

| Data Category: | Geographic Area: | |
|----------------|------------------|------|
| Groundwater | ✓ United States | ✓ GO |

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Search Results -- 1 sites found

site_no list =

• 320048104231601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

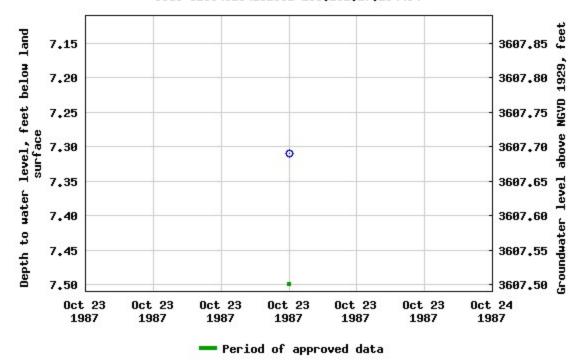
USGS 320048104231601 26S.25E.27.134434

| Available data for this site | Groundwater: | Field measurements | s ∨ GO | |
|------------------------------|--------------|--------------------|------------|------------|
| Eddy County, New Mexico | | | | _ |
| Hydrologic Unit Code 13060 | 0011 | | | |
| Latitude 32°00'48", Longit | ude 104°23 | 3'16" NAD27 | | |
| Land-surface elevation 3,61 | 15.00 feet a | above NGVD29 | | |
| This well is completed in th | e Alluvium, | Bolson Deposit | s and Othe | er Surface |
| Deposits (110AVMB) local a | aquifer. | | | |

Output formats

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





Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2019-09-17 10:15:43 EDT

1.26 1.14 nadww02





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National Water Information System: Web Interface

USGS Water Resources

| Data Category: | Geographic Area: | | |
|----------------|------------------|---|----|
| Groundwater | ✓ United States | ~ | GO |

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Search Results -- 1 sites found

site_no list =

• 320009104271401

Minimum number of levels = 1

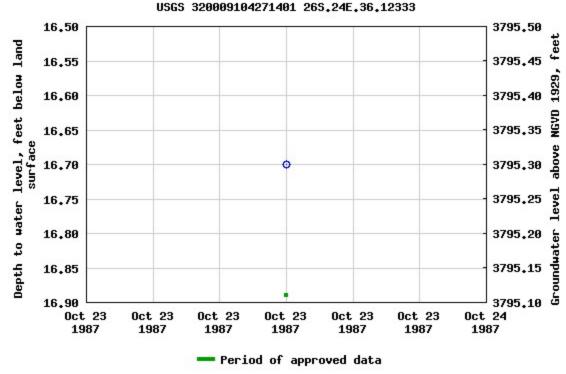
Save file of selected sites to local disk for future upload

USGS 320009104271401 26S.24E.36.12333

| Available data for this site | Groundwater: Field measurements ∨ GO |
|------------------------------|---|
| Eddy County, New Mexico | |
| Hydrologic Unit Code 13060 | 0011 |
| Latitude 32°00'09", Longit | ude 104°27'14" NAD27 |
| Land-surface elevation 3,83 | 12 feet above NGVD29 |
| This well is completed in th | e Alluvium, Bolson Deposits and Other Surface |
| Deposits (110AVMB) local a | aquifer. |
| | |

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.

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

Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2019-09-17 10:18:57 EDT

1.03 0.96 nadww02



Appendix B Field Data & Soil Profile Logs



Sample Log

| Date: | 1/27/31 | |
|-------|---------|--|
| Date: | 1/2/2/ | |

| Project: | Wild Ride Federal #001H |
|----------|-------------------------|
|----------|-------------------------|

Project Number: 11245 Latitude: 32.01648 Longitude: -104.42426

| Sample ID | PID/Odor | Chloride Conc. | GPS |
|--|----------|--|---------|
| 58302' | None | 1,016 | |
| 583831 43841 | _ | 628 | |
| 43041 | _ | 120 | |
| SPIRZI | - | 184 | |
| 581831 | - | 4100 | |
| COLOV' | _ | 4/20 | |
| 50164' 50262' | - | 4120 | |
| (0) 021 | - | c/20 | |
| 9363' SP364' | - | - 120 | |
| 7069 | | C/20 | |
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Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

| Environmental & Safety Solutions, In | | | | Date: | 8/10/20 |
|--------------------------------------|----------------------|-----------|----------|--------------|------------|
| Project: Wild Rid Project Number: | e Federal #001H 0 | Latitude: | 32.01648 | Longitude: _ | -104.42426 |
| Pepth (ft. bgs) | Impant | ed Fill / | De: | scription | |
| 3 | | | | | |
| 5 | | | | | |
| 7 | | | | | |
| 9 | | | | | |
| 11 | | | | | |
| 13 14 | | | | | |
| 15 16 | | | | | |
| 17 18 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 23 24 25 | | | | | |
| 26 | | | | | |
| 28 | | | | | |
| 30 | | | | | |
| 32 33 | | | | | |
| 34 35 | | | | | |
| 36 | | | | | |
| 38 | | | | | |
| 40 | | | | | |
| | | | | | |
| | | | | | |

Received by OCD: 3/2/2021 12:31:25 PM

Appendix C Laboratory Analytical Reports

Certificate of Analysis Summary 669782

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wild Ride Federal #001H

Project Id: 11245 PM

Date Received in Lab: Wed 08.12.2020 11:20

Report Date: 08.17.2020 13:21 Project Manager: Jessica Kramer

Project Location:

Contact:

Eddy County, NM

| | Lab Id: | 669782-0 | 001 | 669782-0 | 002 | 669782-003 | | 669782-004 | | |
|------------------------------------|------------|--------------------|---------|------------------|---------|--------------------|---------|------------------|---------|--|
| Analysis Requested | Field Id: | 8.10 SP1 @ S | Surface | 8.10 SP1 @ 1' | | 8.10 SP2 @ Surface | | 8.10 SP2 @ 1' | | |
| | Depth: | | | 1- ft | | | | 1- ft | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | |
| | Sampled: | 08.10.2020 | 00:00 | 08.10.2020 | 00:00 | 08.10.2020 | 00:00 | 08.10.2020 | 00:00 | |
| BTEX by EPA 8021B | Extracted: | 08.14.2020 | 08:00 | 08.14.2020 08:00 | | 08.14.2020 08:00 | | 08.14.2020 08:00 | | |
| | Analyzed: | 08.14.2020 | 12:30 | 08.14.2020 | 12:50 | 08.14.2020 | 13:11 | 08.14.2020 | 13:31 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | |
| Benzene | | < 0.00202 | 0.00202 | < 0.00201 | 0.00201 | < 0.00198 | 0.00198 | 0.00255 | 0.00199 | |
| Toluene | | 0.00835 | 0.00202 | < 0.00201 | 0.00201 | 0.00635 | 0.00198 | 0.00784 | 0.00199 | |
| Ethylbenzene | | < 0.00202 | 0.00202 | < 0.00201 | 0.00201 | < 0.00198 | 0.00198 | < 0.00199 | 0.00199 | |
| m,p-Xylenes | | < 0.00404 | 0.00404 | < 0.00402 | 0.00402 | < 0.00396 | 0.00396 | < 0.00398 | 0.00398 | |
| o-Xylene | | < 0.00202 | 0.00202 | < 0.00201 | 0.00201 | < 0.00198 | 0.00198 | < 0.00199 | 0.00199 | |
| Total Xylenes | | < 0.00202 | 0.00202 | < 0.00201 | 0.00201 | < 0.00198 | 0.00198 | < 0.00199 | 0.00199 | |
| Total BTEX | | 0.00835 | 0.00202 | < 0.00201 | 0.00201 | 0.00635 | 0.00198 | 0.0104 | 0.00199 | |
| Chloride by EPA 300 | Extracted: | 08.13.2020 | 10:25 | 08.13.2020 | 10:25 | 08.13.2020 | 10:25 | 08.13.2020 | 10:25 | |
| | Analyzed: | 08.13.2020 13:00 | | 08.13.2020 13:06 | | 08.14.2020 08:29 | | 08.13.2020 13:32 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | |
| Chloride | | 1170 | 50.3 | 581 | 49.8 | 13.1 | 4.96 | 58.3 | 50.0 | |
| TPH by SW8015 Mod | Extracted: | 08.13.2020 | 17:00 | 08.13.2020 | 17:00 | 08.13.2020 | 17:00 | 08.13.2020 | 17:00 | |
| | Analyzed: | : 08.14.2020 05:15 | | 08.14.2020 05:36 | | 08.14.2020 05:58 | | 08.14.2020 06:19 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | |
| Gasoline Range Hydrocarbons (GRO) | | <49.8 | 49.8 | < 50.0 | 50.0 | < 50.0 | 50.0 | <49.9 | 49.9 | |
| Diesel Range Organics (DRO) | | <49.8 | 49.8 | <50.0 | 50.0 | < 50.0 | 50.0 | <49.9 | 49.9 | |
| Motor Oil Range Hydrocarbons (MRO) | | <49.8 | 49.8 | <50.0 | 50.0 | < 50.0 | 50.0 | <49.9 | 49.9 | |
| Total TPH | | <49.8 | 49.8 | < 50.0 | 50.0 | < 50.0 | 50.0 | <49.9 | 49.9 | |

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessian Vramer

Analytical Report 669782

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Wild Ride Federal #001H 11245 08.17.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



08.17.2020

Project Manager: PM

Etech Environmental & Safety Solution, Inc

P.O. Box 62228 Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): 669782

Wild Ride Federal #001H

Project Address: Eddy County, NM

PM:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 669782. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 669782 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 669782

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|--------------------|--------|-----------------------|--------------|---------------|
| 8.10 SP1 @ Surface | S | 08.10.2020 00:00 | | 669782-001 |
| 8.10 SP1 @ 1' | S | 08.10.2020 00:00 | 1 ft | 669782-002 |
| 8.10 SP2 @ Surface | S | 08.10.2020 00:00 | | 669782-003 |
| 8.10 SP2 @ 1' | S | 08.10.2020 00:00 | 1 ft | 669782-004 |

Xenco

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wild Ride Federal #001H

 Project ID:
 11245
 Report Date:
 08.17.2020

 Work Order Number(s):
 669782
 Date Received:
 08.12.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: 8.10 SP1 @ Surface Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669782-001

Date Collected: 08.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

SPC Tech:

% Moisture:

Analyst:

SPC

Date Prep: 08.13.2020 10:25 Basis:

Wet Weight

Seq Number: 3134516

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 1170 | 50.3 | mg/kg | 08.13.2020 13:00 | | 10 |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep: 08.13.2020 17:00 Basis: Wet Weight

Seq Number: 3134554

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------------|-------|--------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | | mg/kg | 08.14.2020 05:15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | | mg/kg | 08.14.2020 05:15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | | mg/kg | 08.14.2020 05:15 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | | mg/kg | 08.14.2020 05:15 | U | 1 |
| Surrogate | (| Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date |
|----------------|------------|------------|-------|--------|------------------|
| 1-Chlorooctane | 111-85-3 | 112 | % | 70-130 | 08.14.2020 05:15 |
| o-Terphenyl | 84-15-1 | 110 | % | 70-130 | 08.14.2020 05:15 |

Xenco

Certificate of Analytical Results 669782

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

08.14.2020 08:00

Basis:

Wet Weight

Sample Id: 8.10 SP1 @ Surface Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669782-001 Date Collected: 08.10.2020 00:00

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Date Prep:

Tech: KTL % Moisture:

Seq Number: 3134669

Analyst:

KTL

| Parameter | Cas Number | r Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|------------|-------|--------|----------------------|------|-----|
| Benzene | 71-43-2 | < 0.00202 | 0.00202 | | mg/kg | 08.14.2020 12:30 | U | 1 |
| Toluene | 108-88-3 | 0.00835 | 0.00202 | | mg/kg | 08.14.2020 12:30 | | 1 |
| Ethylbenzene | 100-41-4 | < 0.00202 | 0.00202 | | mg/kg | 08.14.2020 12:30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00404 | 0.00404 | | mg/kg | 08.14.2020 12:30 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00202 | 0.00202 | | mg/kg | 08.14.2020 12:30 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00202 | 0.00202 | | mg/kg | 08.14.2020 12:30 | U | 1 |
| Total BTEX | | 0.00835 | 0.00202 | | mg/kg | 08.14.2020 12:30 | | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 102 | % | 70-130 | 08 14 2020 12:30 | | |

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: **8.10 SP1** @ **1'**

Matrix: Soil

Date Received:08.12.2020 11:20

Lab Sample Id: 669782-002

Date Collected: 08.10.2020 00:00

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Analyst:

SPC SPC

Date Prep: 08.13.2020 10:25

% Moisture:

Basis:

iic.

Wet Weight

Seq Number: 3134516

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 581 | 49.8 | mg/kg | 08.13.2020 13:06 | | 10 |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

DVM

% Moisture:

Analyst: ARM

Tech:

Date Prep: 08.13.2020 17:00

Basis: Wet Weight

Seq Number: 3134554

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------------|-------|--------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | < 50.0 | 50.0 | | mg/kg | 08.14.2020 05:36 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | < 50.0 | 50.0 | | mg/kg | 08.14.2020 05:36 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | < 50.0 | 50.0 | | mg/kg | 08.14.2020 05:36 | U | 1 |
| Total TPH | PHC635 | < 50.0 | 50.0 | | mg/kg | 08.14.2020 05:36 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date |
|----------------|------------|------------|-------|--------|------------------|
| 1-Chlorooctane | 111-85-3 | 118 | % | 70-130 | 08.14.2020 05:36 |
| o-Terphenyl | 84-15-1 | 113 | % | 70-130 | 08.14.2020 05:36 |

Xenco

Certificate of Analytical Results 669782

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

08.14.2020 08:00

Basis:

Wet Weight

Sample Id: **8.10 SP1** @ **1'** Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669782-002 Date Collected: 08.10.2020 00:00 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Date Prep:

Tech: KTL % Moisture:

Seq Number: 3134669

Analyst:

KTL

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|---------------|-------------|------------|------------|-------|--------|------------------|------|-----|
| Benzene | 71-43-2 | < 0.00201 | 0.00201 | | mg/kg | 08.14.2020 12:50 | U | 1 |
| Toluene | 108-88-3 | < 0.00201 | 0.00201 | | mg/kg | 08.14.2020 12:50 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00201 | 0.00201 | | mg/kg | 08.14.2020 12:50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00402 | 0.00402 | | mg/kg | 08.14.2020 12:50 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00201 | 0.00201 | | mg/kg | 08.14.2020 12:50 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00201 | 0.00201 | | mg/kg | 08.14.2020 12:50 | U | 1 |
| Total BTEX | | < 0.00201 | 0.00201 | | mg/kg | 08.14.2020 12:50 | U | 1 |
| Surrogate | (| Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: 8.10 SP2 @ Surface

Matrix: Soil

Date Received:08.12.2020 11:20

Lab Sample Id: 669782-003

Date Collected: 08.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SI

SPC

% Moisture:

Analyst: SPC

Date Prep: 08.13.2020 10:25

Basis:

Wet Weight

Seq Number: 3134516

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 13.1 | 4.96 | mg/kg | 08.14.2020 08:29 | | 1 |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

70-130

Analyst: ARM

o-Terphenyl

Date Prep: 08.13.2020 17:00

Basis: Wet Weight

08.14.2020 05:58

Seq Number: 3134554

| Parameter | Cas Number | r Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------------|-------|--------|----------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | < 50.0 | 50.0 | | mg/kg | 08.14.2020 05:58 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | < 50.0 | 50.0 | | mg/kg | 08.14.2020 05:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | < 50.0 | 50.0 | | mg/kg | 08.14.2020 05:58 | U | 1 |
| Total TPH | PHC635 | < 50.0 | 50.0 | | mg/kg | 08.14.2020 05:58 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 113 | % | 70-130 | 08.14.2020 05:58 | | |

110

84-15-1

Date Received:08.12.2020 11:20

Certificate of Analytical Results 669782

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: 8.10 SP2 @ Surface Matrix: Soil

Lab Sample Id: 669782-003 Date Collected: 08.10.2020 00:00

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL % Moisture:

KTL Analyst: Date Prep: 08.14.2020 08:00 Basis: Wet Weight

Seq Number: 3134669

| Parameter | Cas Numbe | er Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|------------|-------|--------|----------------------|------|-----|
| Benzene | 71-43-2 | < 0.00198 | 0.00198 | | mg/kg | 08.14.2020 13:11 | U | 1 |
| Toluene | 108-88-3 | 0.00635 | 0.00198 | | mg/kg | 08.14.2020 13:11 | | 1 |
| Ethylbenzene | 100-41-4 | < 0.00198 | 0.00198 | | mg/kg | 08.14.2020 13:11 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00396 | 0.00396 | | mg/kg | 08.14.2020 13:11 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00198 | 0.00198 | | mg/kg | 08.14.2020 13:11 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00198 | 0.00198 | | mg/kg | 08.14.2020 13:11 | U | 1 |
| Total BTEX | | 0.00635 | 0.00198 | | mg/kg | 08.14.2020 13:11 | | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 116 | % | 70-130 | 08.14.2020 13:11 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 99 | % | 70-130 | 08.14.2020 13:11 | | |

Environment Testing

Certificate of Analytical Results 669782

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: **8.10 SP2** @ **1'** Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669782-004 Date Collected: 08.10.2020 00:00 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 08.13.2020 10:25 Basis: Wet Weight

Seq Number: 3134516

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 58.3 | 50.0 | mg/kg | 08.13.2020 13:32 | | 10 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight

Seq Number: 3134554

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------------|-------|--------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | | mg/kg | 08.14.2020 06:19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | | mg/kg | 08.14.2020 06:19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | | mg/kg | 08.14.2020 06:19 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | | mg/kg | 08.14.2020 06:19 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | |
|----------------|------------|------------|-------|--------|------------------|--|
| 1-Chlorooctane | 111-85-3 | 114 | % | 70-130 | 08.14.2020 06:19 | |
| o-Terphenyl | 84-15-1 | 114 | % | 70-130 | 08.14.2020 06:19 | |

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

08.14.2020 08:00

%

70-130

08.14.2020 13:31

Basis:

Wet Weight

Sample Id: **8.10 SP2** @ **1'** Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669782-004 Date Collected: 08.10.2020 00:00 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Date Prep:

Tech: KTL % Moisture:

540-36-3

Seq Number: 3134669

1,4-Difluorobenzene

Analyst:

KTL

| Parameter | Cas Number | r Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|------------|-------|--------|------------------|------|-----|
| Benzene | 71-43-2 | 0.00255 | 0.00199 | | mg/kg | 08.14.2020 13:31 | | 1 |
| Toluene | 108-88-3 | 0.00784 | 0.00199 | | mg/kg | 08.14.2020 13:31 | | 1 |
| Ethylbenzene | 100-41-4 | < 0.00199 | 0.00199 | | mg/kg | 08.14.2020 13:31 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00398 | 0.00398 | | mg/kg | 08.14.2020 13:31 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00199 | 0.00199 | | mg/kg | 08.14.2020 13:31 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00199 | 0.00199 | | mg/kg | 08.14.2020 13:31 | U | 1 |
| Total BTEX | | 0.0104 | 0.00199 | | mg/kg | 08.14.2020 13:31 | | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 103 | % | 70-130 | 08.14.2020 13:31 | | |

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Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 669782

Etech Environmental & Safety Solution, Inc

Wild Ride Federal #001H

Analytical Method: Chloride by EPA 300

3134516

Matrix: Solid

E300P Prep Method:

Date Prep:

08.13.2020

Seq Number: MB Sample Id:

7709361-1-BLK

LCS Sample Id:

7709361-1-BKS

LCSD Sample Id: 7709361-1-BSD

Parameter

MB Result Amount

LCS LCS Result %Rec LCSD LCSD Result %Rec

106

MSD

Limits %RPD RPD Units Limit

20

Analysis Flag Date

Chloride

< 5.00

265

265

90-110

0

08.13.2020 11:25 mg/kg

E300P

Analytical Method: Chloride by EPA 300

3134516

Spike

250

Spike

251

Matrix: Soil

106

Prep Method: Date Prep:

08.13.2020

Parent Sample Id:

Seq Number:

Parameter

669779-006

669779-006 S MS Sample Id: MS MS MSD

MSD Sample Id: 669779-006 SD %RPD RPD Units

Analysis

Chloride

Parent Result Amount < 5.01

Result %Rec 271 108

Result 271 %Rec 108 90-110

Limits

Limit 0 20

mg/kg

Flag Date 08.13.2020 11:44

Analytical Method: Chloride by EPA 300

3134516

Matrix: Soil

Prep Method: Date Prep: E300P

08.13.2020

Parent Sample Id: **Parameter**

Seq Number:

669782-002

MS Sample Id: MS

MS MSD %Rec

MSD %Rec

%RPD Limits

MSD Sample Id: 669782-002 SD Units

Analysis Flag

Chloride

Spike **Parent** Result Amount 581 2490

Result 3310 110

Result 3310

669782-002 S

110 90-110

Limit 20 0

RPD

08.13.2020 13:12 mg/kg

Date

Analytical Method: TPH by SW8015 Mod

Seq Number:

3134554

Matrix: Solid

Prep Method:

SW8015P

Date Prep: 08.13.2020

MB Sample Id:

7709436-1-BLK

LCS Sample Id: 7709436-1-BKS

LCSD Sample Id: 7709436-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units **Parameter** Result Limit Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) < 50.0 1000 mg/kg

Diesel Range Organics (DRO)

< 50.0 1000

116

115

99 986 1030 103

115

109

< 50.0

957 96 1010 70-130 101

115

112

70-130

3 20

70-130

70-130

Analysis Date 08.13.2020 21:46

08.13.2020 21:46

08.13.2020 21:46

Flag

08.13.2020 21:46 20 2 mg/kg LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Date Flag %Rec Flag

1-Chlorooctane o-Terphenyl

Motor Oil Range Hydrocarbons (MRO)

Analytical Method: TPH by SW8015 Mod

3134554

Matrix: Solid

MB Sample Id: 7709436-1-BLK

Prep Method:

SW8015P

Date Prep:

08.13.2020

Flag

Parameter

Seq Number:

MBResult

Units mg/kg

%

%

Analysis Date 08.13.2020 21:24

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample = Parent Result = MS/LCS Result = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Flag

Xenco

QC Summary 669782

Etech Environmental & Safety Solution, Inc

Wild Ride Federal #001H

Analytical Method: TPH by SW8015 Mod

669700-002

Matrix: Soil

SW8015P Prep Method:

3134554 Seg Number:

MS Sample Id: 669700-002 S

Date Prep: 08.13.2020 MSD Sample Id: 669700-002 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) < 50.0 999 894 89 20 08.13.2020 22:50 882 88 70-130 1 mg/kg 70-130 08.13.2020 22:50 Diesel Range Organics (DRO) < 50.0 999 898 90 881 2 20 mg/kg 88

MS MS MSD MSD Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 08.13.2020 22:50 1-Chlorooctane 109 107 70-130 % 08.13.2020 22:50 o-Terphenyl 109 104 70-130 %

Analytical Method: BTEX by EPA 8021B

3134669

Matrix: Solid

Prep Method:

SW5035A

Seq Number: MB Sample Id:

Seg Number:

o-Xylene

Parent Sample Id:

Parent Sample Id:

Date Prep:

08.14.2020

7709515-1-BLK

LCS Sample Id: 7709515-1-BKS LCSD Sample Id:

7709515-1-BSD

MB Spike LCS LCS LCSD Limits %RPD **RPD** Units Analysis LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date 102 08.14.2020 08:04 < 0.00200 0.100 0.102 0.106 35 Benzene 106 70-130 4 mg/kg 08.14.2020 08:04 Toluene < 0.00200 0.100 0.0960 96 0.100 100 70-130 4 35 mg/kg 08.14.2020 08:04 0.100 0.0942 94 0.0984 98 70-130 4 35 Ethylbenzene < 0.00200 mg/kg

08.14.2020 08:04 m,p-Xylenes < 0.00400 0.200 0.187 94 0.195 98 70-130 4 35 mg/kg 08.14.2020 08:04 < 0.00200 0.100 0.0939 94 0.0988 70-130 5 35 o-Xylene 99 mg/kg Limits MB MB LCS LCS LCSD LCSD Units **Analysis** Surrogate

%Rec Flag %Rec Flag Flag Date %Rec 08.14.2020 08:04 1,4-Difluorobenzene 106 100 101 70-130 % 08.14.2020 08:04 70-130 % 4-Bromofluorobenzene 103 103 103

Analytical Method: BTEX by EPA 8021B

3134669

< 0.00200

0.100

0.0821

Matrix: Soil

Prep Method: Date Prep:

35

mg/kg

SW5035A 08.14.2020

08.14.2020 08:44

Flag

669700-011 MS Sample Id: 669700-011 S MSD Sample Id: 669700-011 SD

RPD Parent Spike MS MS MSD **MSD** Limits %RPD Units Analysis **Parameter** Limit Date Result Amount Result %Rec %Rec Result 08.14.2020 08:44 < 0.00200 0.100 0.0930 93 0.0959 95 70-130 3 35 Benzene mg/kg 08.14.2020 08:44 87 70-130 35 Toluene < 0.00200 0.100 0.08650.0893 88 3 mg/kg Ethylbenzene < 0.00200 0.100 0.0838 84 0.0863 70-130 3 35 08.14.2020 08:44 85 mg/kg 35 08.14.2020 08:44 m,p-Xylenes < 0.00400 0.200 0.165 83 0.170 84 70-130 3 mg/kg

MS MS **MSD MSD** Limits Units Analysis Surrogate Flag Flag %Rec %Rec Date 08.14.2020 08:44 1,4-Difluorobenzene 102 101 70-130 % 08.14.2020 08:44 4-Bromofluorobenzene 105 102 70-130 %

82

0.0848

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result

= MS/LCS Result = MSD/LCSD Result

70-130

84

3

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Received by OCD: 3/2/2021 12:31:25 PM



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701

| Work Order No | 1 dog | 162 |
|-----------------|-------|-----|
| TIGIN WINGS 170 | | |

| | | | | | | | Att | anta, G | A (770) | 449-8 | 1800 | | | | | | v | ስለ <u>አ</u> ለለ ነ | enco | നവാ | Page | 1 | of |
|---|---|------------|-------------------|---------------------------------------|-------------------------------------|-----------------|------------|-------------------------|----------------|--|------------------|----------|-----------|----------|--------------------------------|---------|--------------|------------------|--------|--------------|--|----------|-----------------------------|
| Project Manager: | Joel Lowry | | | | Bill to: (if differe | nt) | Da | Kotu | 1 | Je | 1 | | | 7 [| | | - | | | | comment | 5 | |
| Company Name: | Etech Environme | ental & S | Safety | | | | | | | Program: UST/PST PRP Brownfields RRC Superfund | | | | | | | | | | | | | |
| Address: | 3100 Plains High | ıway | | | Address: | | | | | State of Project: | | | | | | | | | | | | | |
| City, State ZIP: | Lovington, NM, 8 | 38260 | | | City, State ZII | ity, State ZIP: | | | | [| - | - | | | 110 | PST/ | US' TR | R[] Le | vel l□ | | | | |
| Phone: | 575-396-2378 | | | Email: | Email Resul | ts to P | M@et | echen | v,com | 1 + C | ient | | | | Deliverables: EDD ADaPT Other: | | | | | | | | |
| Project Name: | Project Name: Wild Ride Federal # OOH Turn Around ANALYSIS RE | | | | | | QUES | JEST Preservative Codes | | | | | | | | | | | | | | | |
| Project Number: | 11245 | | | Routi | ne: | | | | | | | | | | | | | | | | HNO3: H | V | |
| Project Location | Eddy Cou | orty, | NIM | Rush | : 🗆 | S S | | | | | | | | | | | | | | | H2S04: H | 2 | |
| Sampler's Name: | Migue | Ika | mrez | Due I | Date: | servative | | | | | | | | | | | | | | | HCL: HL | | |
| PO #: | | | | | | 986 | | | | | | | | | | 1 | | | | | None: NO | | |
| SAMPLE RECE | | ip Blank: | Yes No | Wet Ice: | Yes No | P.S | | | | | | | | | | 1 | | | | | NaOH: Na | | |
| Temperature (°C): | | 10 | Т | hermometer | · ID | iner | | | | | | | | | 1 | | | | | | MeOH: Me | | _ |
| Received Intact: | (Yes | No | | | | Conta | | | Ext | | | | | | 1 | | | | | | Zn Acetat | e+ NaOH | : Zn |
| Cooler Custody Sea Sample Custody Sea | | | Correction F | | | Ď jo | E300 | 5 | TPH Modified E | 902 | | | | | | | | | | | | | ecevied by the by 4:30pm |
| | Date Time | | | | Depth | Number | G 5 | BTEX 8021 | | TPH TX1005 | | | | | | | | | | | Sar | nple Cor | nments |
| | - | | Sampled | Sampled | | ₹8 | 5 | 18 118 | 4 | į. | | | | | | | | | | | | | |
| 75.10 58 16 9 | Utace | Soil, | 8:10-20 | | | 1 | X | X | < | | | | | | | | | | | ↓ | | | <u> </u> |
| 8.10 SP 6 | | Soil | 8-10-20 | | 1'_ | 1 | X | X | X | | | | | | | | | | | - | | | |
| 8:10 SP2 | Doublace | | 8-10-20 | | / | 1/ | X | X | X | <u> </u> | | | | | | | | | | | ļ | | |
| 710 SP | العام | Soll | 8-10-20 | | 11' | 15: | 1X | X | 12 | _ | | | | | | | | | | — | | | |
| | | | | | | | ऻ | | <u> </u> | - | | | <u> </u> | | | | | | | | - | | |
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| | | | - | | | +- | - | + | ╂ | 4- | - | - | | - | | - | | | - | - | | | |
| | | _ | | | | + | +- | - | - | - | + | _ | | - | | | | | - | + | - | | |
| Total 200.7 / | 6010 200,8/ | 2020- | Ωι | 2CDA 13D | PM Texas | 11 A | Ch. | As Da | Do. | D C | L Co. C | - Co | C., E | a Ph | Ma | idn 64 | o Ni | K So | Δα | SiO2 | Na Sr T | Sn 11 | V 7n |
| | d(s) and Metal(s) | | | TCLP / SP | LP 6010: 8F | RCRA | Sb | 4s Ba | Be | Cd C | r Co≕ | cu Pl | Mn | Mo N | iviy i Ji Se | Ag T | ΙÜ | N Se | ng . | 11 | 631 / 245. | 1/7470 | / 7471 : Hg |
| Notice: Signature of this | | | | | | | | | | | | | | | | | | | | | | | |
| of service. Xenco will be of Xenco. A minimum ch | liable only for the cost of | of samples | and shall not ass | ume any respon | sibility for any los | ses or e | xpenses | incurred | t by the | client it | such loss | es are d | tue to ch | rcumstar | ices bev | ond the | control | | | | | | |
| Relinguished I | y: (Signature) | | Received | by: (Signal | ure) | T | Date | e/Time |) | T | Relingu | ished | by: (S | ignatu | re) | 1/4 | Rec | eived | by: (S | ignati | ıre) | CQ | ate/Time |
| · Ullia | Dans | 1/1 | 12. | | to the same to the same to the same | 8. | 11-7/ | 7/2 | ัวา | 2 | • | | | | | | 117 | 4 | | | - | 8 | 12 |
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| 5 | | | | | | | | | | 6 | | | | | | | | | | | | House | Jete 10 1-119 Rov. 20 15 |

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 08.12.2020 11.20.00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 669782

Temperature Measuring device used: IR-8

| | Sample Receipt Checklist | | Comments |
|--|--------------------------|-----|----------------------------|
| #1 *Temperature of cooler(s)? | | .2 | |
| #2 *Shipping container in good condition? | | Yes | |
| #3 *Samples received on ice? | | Yes | |
| #4 *Custody Seals intact on shipping contain | ner/ cooler? | N/A | |
| #5 Custody Seals intact on sample bottles? | | N/A | |
| #6*Custody Seals Signed and dated? | | N/A | |
| #7 *Chain of Custody present? | | Yes | |
| #8 Any missing/extra samples? | | No | |
| #9 Chain of Custody signed when relinquish | ned/ received? | Yes | |
| #10 Chain of Custody agrees with sample la | abels/matrix? | Yes | |
| #11 Container label(s) legible and intact? | | Yes | |
| #12 Samples in proper container/ bottle? | | Yes | BTEX was in bulk container |
| #13 Samples properly preserved? | | Yes | |
| #14 Sample container(s) intact? | | Yes | |
| #15 Sufficient sample amount for indicated | test(s)? | Yes | |
| #16 All samples received within hold time? | | Yes | |
| #17 Subcontract of sample(s)? | | N/A | |
| #18 Water VOC samples have zero headsp | ace? | N/A | |

| * Must be completed for after-hours deliver | v of samples i | prior to placin | a in the | e refrigerator |
|---|------------------|-----------------|----------|-------------------|
| made be completed for alter fledie deliver | y or ourribles i | prior to piaoni | 9 | o i oii igoi atoi |

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 08.12.2020

Checklist reviewed by: Jession Venner

Date: 08.12.2020

Environment Testing

Page 50 of 110

Certificate of Analysis Summary 669786

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wild Ride Federal #001H

Project Id: Contact:

💸 eurofins

11245

PM

Date Received in Lab: Wed 08.12.2020 11:20

Report Date: 08.17.2020 13:22

Project Location:

Eddy County, NM Project Manager: Jessica Kramer Lab Id: 669786-001 669786-002 8.10 SP3 @ Surface Field Id: 8.10 SP3 @ 1' Analysis Requested Depth: 1- ft SOIL Matrix: SOIL

| | mui ix. | SOIL | | SOIL | | | |
|------------------------------------|------------|------------|---------|--------------|---------|--|--|
| | Sampled: | 08.10.2020 | 00:00 | 08.10.2020 (| 00:00 | | |
| BTEX by EPA 8021B | Extracted: | 08.14.2020 | 08:00 | 08.14.2020 (| 08:00 | | |
| | Analyzed: | 08.14.2020 | 14:54 | 08.14.2020 | 15:14 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | | |
| Benzene | | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 | | |
| Toluene | | 0.00529 | 0.00199 | 0.00479 | 0.00199 | | |
| Ethylbenzene | | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 | | |
| m,p-Xylenes | | < 0.00398 | 0.00398 | < 0.00398 | 0.00398 | | |
| o-Xylene | | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 | | |
| Total Xylenes | | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 | | |
| Total BTEX | | 0.00529 | 0.00199 | 0.00479 | 0.00199 | | |
| Chloride by EPA 300 | Extracted: | 08.12.2020 | 16:40 | 08.12.2020 | 16:40 | | |
| | Analyzed: | 08.13.2020 | 08:35 | 08.13.2020 (| 08:54 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | | |
| Chloride | | 1450 | 50.5 | 14.0 | 4.99 | | |
| TPH by SW8015 Mod | Extracted: | 08.12.2020 | 17:00 | 08.12.2020 | 17:00 | | |
| | Analyzed: | 08.13.2020 | 05:34 | 08.13.2020 (|)5:55 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | | |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | < 50.0 | 50.0 | | |
| Diesel Range Organics (DRO) | | <49.9 | 49.9 | <50.0 | 50.0 | | |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | <50.0 | 50.0 | | |
| Total TPH | | <49.9 | 49.9 | <50.0 | 50.0 | | |

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Weamer



Analytical Report 669786

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Wild Ride Federal #001H 11245 08.17.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



08.17.2020

Project Manager: PM

Etech Environmental & Safety Solution, Inc

P.O. Box 62228 Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): 669786

Wild Ride Federal #001H

Project Address: Eddy County, NM

PM:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 669786. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 669786 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Xenco

Environment Testing

Sample Cross Reference 669786

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|--------------------|--------|-----------------------|--------------|---------------|
| 8.10 SP3 @ Surface | S | 08.10.2020 00:00 | | 669786-001 |
| 8.10 SP3 @ 1' | S | 08.10.2020 00:00 | 1 ft | 669786-002 |

CASE NARRATIVE

Page 54 of 110

eurofins **Environment Testing** Xenco

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wild Ride Federal #001H

Project ID: Report Date: 08.17.2020 11245 Work Order Number(s): 669786 Date Received: 08.12.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Xenco

Certificate of Analytical Results 669786

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: 8.10 SP3 @ Surface

Matrix: Soil

Date Received:08.12.2020 11:20

Lab Sample Id: 669786-001

Date Collected: 08.10.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

HE

% Moisture:

Analyst: CHE

Date Prep:

Date Prep:

08.12.2020 16:40

Basis:

Wet Weight

Seq Number: 3134378

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 1450 | 50.5 | mo/ko | 08 13 2020 08:35 | | 10 |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

DVM

ARM

70 IVIOIS

% Moisture:

08.12.2020 17:00 Basis: Wet Weight

Seq Number: 3134439

Tech:
Analyst:

| Parameter | Cas Numbe | r Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|-----------|------------|------------|-------|--------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | | mg/kg | 08.13.2020 05:34 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | | mg/kg | 08.13.2020 05:34 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | | mg/kg | 08.13.2020 05:34 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | | mg/kg | 08.13.2020 05:34 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 124 | % | 70-130 | 08.13.2020 05:34 | | |
| o-Terphenyl | | 84-15-1 | 121 | % | 70-130 | 08.13.2020 05:34 | | |



Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: 8.10 SP3 @ Surface Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669786-001

Date Collected: 08.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

KTL

Prep Method: SW5035A

Tech: KTL % Moisture:

Analyst:

Date Prep: 08.14.2020 08:00 Basis: Wet Weight

Seq Number: 3134669

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|---------------|-------------|-----------|------------|-------|--------|----------------------|------|-----|
| Benzene | 71-43-2 | < 0.00199 | 0.00199 | | mg/kg | 08.14.2020 14:54 | U | 1 |
| Toluene | 108-88-3 | 0.00529 | 0.00199 | | mg/kg | 08.14.2020 14:54 | | 1 |
| Ethylbenzene | 100-41-4 | < 0.00199 | 0.00199 | | mg/kg | 08.14.2020 14:54 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00398 | 0.00398 | | mg/kg | 08.14.2020 14:54 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00199 | 0.00199 | | mg/kg | 08.14.2020 14:54 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00199 | 0.00199 | | mg/kg | 08.14.2020 14:54 | U | 1 |
| Total BTEX | | 0.00529 | 0.00199 | | mg/kg | 08.14.2020 14:54 | | 1 |
| Surrogata | Co | s Number | % Decovery | Unite | Limite | Analysis Data | Flog | |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|----------------------|------|
| 1,4-Difluorobenzene | 540-36-3 | 112 | % | 70-130 | 08.14.2020 14:54 | |
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 08.14.2020 14:54 | |



Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: **8.10 SP3** @ **1'** Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669786-002 Date Collected: 08.10.2020 00:00 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.12.2020 16:40

Basis: Wet Weight

Seq Number: 3134378

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------------|------|-----|
| Chloride | 16887-00-6 | 14.0 | 4.99 | mg/kg | 08.13.2020 08:54 | | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.12.2020 17:00 Basis: Wet Weight

Seq Number: 3134439

| Parameter | Cas Number | r Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------------|-------|--------|----------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | | mg/kg | 08.13.2020 05:55 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | < 50.0 | 50.0 | | mg/kg | 08.13.2020 05:55 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | < 50.0 | 50.0 | | mg/kg | 08.13.2020 05:55 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | | mg/kg | 08.13.2020 05:55 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 114 | % | 70-130 | 08 13 2020 05:55 | | |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | F |
|----------------|------------|------------|-------|--------|------------------|---|
| 1-Chlorooctane | 111-85-3 | 114 | % | 70-130 | 08.13.2020 05:55 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-130 | 08.13.2020 05:55 | |



Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

08.14.2020 08:00

Basis:

Wet Weight

Sample Id: **8.10 SP3** @ **1'** Matrix: Soil Date Received:08.12.2020 11:20

Lab Sample Id: 669786-002 Date Collected: 08.10.2020 00:00 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Date Prep:

Tech: KTL % Moisture:

Seq Number: 3134669

KTL

Analyst:

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|---------------|-------------|-----------|------------|-------|--------|------------------|------|-----|
| Benzene | 71-43-2 | < 0.00199 | 0.00199 | | mg/kg | 08.14.2020 15:14 | U | 1 |
| Toluene | 108-88-3 | 0.00479 | 0.00199 | | mg/kg | 08.14.2020 15:14 | | 1 |
| Ethylbenzene | 100-41-4 | < 0.00199 | 0.00199 | | mg/kg | 08.14.2020 15:14 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00398 | 0.00398 | | mg/kg | 08.14.2020 15:14 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00199 | 0.00199 | | mg/kg | 08.14.2020 15:14 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00199 | 0.00199 | | mg/kg | 08.14.2020 15:14 | U | 1 |
| Total BTEX | | 0.00479 | 0.00199 | | mg/kg | 08.14.2020 15:14 | | 1 |
| Surrogate | Ca | s Number | % Recovery | Units | Limits | Analysis Date | Flag | |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|----------------------|------|
| 4-Bromofluorobenzene | 460-00-4 | 114 | % | 70-130 | 08.14.2020 15:14 | |
| 1,4-Difluorobenzene | 540-36-3 | 115 | % | 70-130 | 08.14.2020 15:14 | |



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Chloride

Chloride

669786 **QC Summary**

Etech Environmental & Safety Solution, Inc

Wild Ride Federal #001H

Analytical Method: Chloride by EPA 300

Seq Number: 3134378

Matrix: Solid

E300P Prep Method:

20

20

Date Prep: 08.12.2020

7709299-1-BLK LCS Sample Id: 7709299-1-BKS MB Sample Id:

248

1240

0

1

0

90-110

90-110

90-110

110

113

110

LCSD Sample Id: 7709299-1-BSD

mg/kg

mg/kg

mg/kg

08.12.2020 16:47

08.12.2020 18:35

X

Flag

LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date

Chloride < 5.00 250 109 274 273

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Seq Number: 3134378 Matrix: Soil Date Prep: 08.12.2020 669777-001 MS Sample Id: 669777-001 S MSD Sample Id: 669777-001 SD Parent Sample Id:

114

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec %Rec Limit Date Result 08.12.2020 17:06 282 280 20

< 4.96

2230

E300P Analytical Method: Chloride by EPA 300 Prep Method: 3134378 Seq Number: Matrix: Soil Date Prep: 08.12.2020

3590

MS Sample Id: 669808-001 S MSD Sample Id: 669808-001 SD 669808-001 Parent Sample Id:

110

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limits Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec

3590

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: 3134439 Matrix: Solid Seq Number: Date Prep: 08.12.2020

MB Sample Id: 7709338-1-BLK LCS Sample Id: 7709338-1-BKS LCSD Sample Id: 7709338-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis **Parameter** Result Limit Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 08.12.2020 22:03 939 < 50.0 1000 997 100 94 70-130 6 20 mg/kg 08.12.2020 22:03 Diesel Range Organics (DRO) 997 955 96 70-130 20 < 50.0 1000 100 4 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Date Flag %Rec Flag 08.12.2020 22:03 1-Chlorooctane 120 127 121 70-130 % 08.12.2020 22:03 o-Terphenyl 116 120 115 70-130 %

Analytical Method: TPH by SW8015 Mod Prep Method:

Seq Number: 3134439 Matrix: Solid Date Prep: 08.12.2020

MB Sample Id: 7709338-1-BLK

MBUnits Analysis Flag **Parameter** Result Date

08.12.2020 21:42 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result

= MS/LCS Result = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

SW8015P

Flag

Flag

QC Summary 669786

Etech Environmental & Safety Solution, Inc

Wild Ride Federal #001H

Analytical Method: TPH by SW8015 Mod Matrix: Soil

SW8015P Prep Method: Date Prep: 08.12.2020

3134439 Seg Number: Parent Sample Id: 669772-001

MS Sample Id: 669772-001 S MSD Sample Id: 669772-001 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) < 50.0 999 935 94 20 08.12.2020 23:08 981 98 70-130 5 mg/kg 08.12.2020 23:08 Diesel Range Organics (DRO) < 50.0 999 941 94 978 70-130 4 20 mg/kg 98

MS MS MSD MSD Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 08.12.2020 23:08 1-Chlorooctane 114 120 70-130 % 08.12.2020 23:08 o-Terphenyl 106 110 70-130 %

Analytical Method: BTEX by EPA 8021B

3134669 Matrix: Solid

SW5035A Prep Method:

08.14.2020

Seq Number: MB Sample Id:

7709515-1-BLK

LCS Sample Id: 7709515-1-BKS

Date Prep: LCSD Sample Id:

7709515-1-BSD

MB Spike LCS LCS LCSD Limits %RPD **RPD** Units Analysis LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date 102 08.14.2020 08:04 < 0.00200 0.100 0.102 0.106 35 Benzene 106 70-130 4 mg/kg 08.14.2020 08:04

Toluene < 0.00200 0.100 0.0960 96 0.100 100 70-130 4 35 mg/kg 08.14.2020 08:04 0.100 0.0942 94 0.0984 98 70-130 4 35 Ethylbenzene < 0.00200 mg/kg 08.14.2020 08:04 m,p-Xylenes < 0.00400 0.200 0.187 94 0.195 98 70-130 4 35 mg/kg 08.14.2020 08:04 < 0.00200 0.100 0.0939 94 0.0988 70-130 5 35 o-Xylene 99 mg/kg

Limits MB MB LCS LCS LCSD LCSD Units **Analysis** Surrogate %Rec Flag %Rec Flag Flag Date %Rec 08.14.2020 08:04 1,4-Difluorobenzene 106 100 101 70-130 % 08.14.2020 08:04 70-130 % 4-Bromofluorobenzene 103 103 103

Analytical Method: BTEX by EPA 8021B

SW5035A Prep Method: Seg Number: 3134669 Matrix: Soil Date Prep: 08.14.2020

669700-011 MS Sample Id: 669700-011 S MSD Sample Id: 669700-011 SD Parent Sample Id: RPD Parent Spike MS MS MSD **MSD** Limits %RPD Units Analysis **Parameter**

Limit Date Result Amount Result %Rec %Rec Result 08.14.2020 08:44 < 0.00200 0.100 0.0930 93 0.0959 95 70-130 3 35 Benzene mg/kg 08.14.2020 08:44 87 70-130 35 Toluene < 0.00200 0.100 0.08650.0893 88 3 mg/kg Ethylbenzene < 0.00200 0.100 0.0838 84 0.0863 70-130 3 35 08.14.2020 08:44 85 mg/kg 35 08.14.2020 08:44 m,p-Xylenes < 0.00400 0.200 0.165 83 0.170 84 70-130 3 mg/kg < 0.00200 0.100 0.0821 82 0.0848 70-130 3 35 08.14.2020 08:44 o-Xylene 84 mg/kg

MS MS **MSD MSD** Limits Units Analysis Surrogate Flag Flag %Rec %Rec Date 08.14.2020 08:44 1,4-Difluorobenzene 102 101 70-130 % 08.14.2020 08:44 4-Bromofluorobenzene 105 102 70-130 %

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result

= MS/LCS Result = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Received by OCD: 3/2/2021 12:31:25 PM



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701

| | \ N | NA | 124 |) |
|----------------|-----------------------------------|----------------|-----|---|
| Work Order No: | $\frac{\mathcal{C}}{\mathcal{C}}$ | 4 1 | O | |

| | | | | | | | A | iania, c | 5A (770) | 149-88 | iuu | | | | | | | 1A/A/A/A | xenco | .com | Page_ | 1 | of / | |
|---|--|--------------|---------------------------------------|-------------------|---|-----------------------|---|-----------------------|--------------|-------------|----------------------|----------------------|-----------|-----------------------|--|--------------------|----------------|----------|--------|--------|------------|-----------|--------------|-------|
| Project Manager: | Joel Lowry | | | | Bill to: (If differe | ent) | Da | Kot | n 1 | Vecl | | | | | | | | | | | Comments | | | |
| Company Name: | Elech Environm | nental & S | Safety | | Company Na | | *************************************** | nel | | | | | | | Program: UST/PST PRP Brownfields RRC Superfund | | | | | | | | | |
| Address: | 3100 Plains Hig | jhway | | | Address: | | | | | | | | | 71 | State of Project: | | | | | | | | | |
| City, State ZIP: | Lovington, NM, | 88260 | | | City, State ZI | P: | 111 | | | | | | | 7 1 | Report | ing:Le | vel I | Leve | et I(| PST/ | US[] TRE | t[] Le | vel I | - |
| Phone: | 575-396-2378 | | | Email: | Email Resul | | PM@e | techer | ıv,com | ı + Cli | ent | | | | Deliver | ables | : EDD | | | ADaP | r 🗆 0 | ther: | | |
| Project Name: | Wild Ride | Fede | 1/4/ # OC | V// Tu | rn Around | | | - | | | AN | ALYS | SIS RE | QUES | ST. | | | | | | Pres | ervative | Codes | |
| Project Number: | 11245 | | | Routi | 7 | | | | | | T | | | | | | | | | | HNO3: HN | | | |
| Project Location | Eddy Cour | HY, N | N | Rush | : 🛛 | e e | | | | | $\neg \uparrow$ | | | | | | | | | | H2S04: H2 | | | |
| Sampler's Name: | Miguel | Ran | 1ven | Due I | Date: | ervative | | | | 1 | 1 | 1 | | | | | | | | | HCL: HL | | | |
| PO #: | | | | | | | | | | | - 1 | | | | | | | | | | None: NO | | | |
| SAMPLE RECE | | np Blank: | Yes No | Wet Ice: | (Yes) No | Containers/Pres | | | | | - 1 | | | | İ | | | | | | NaOH: Na | | | |
| Temperature (°C): | 0.00 | id | | Thermometer | ID | - E | 1 | | | | | | | | | | | | | | МеОН: Ме | | | |
| Received Intact: | (Yès) | No | | | | Taj. | 1 | | | | 1 | | | | | | | | | | Zn Acetate | + NaOH | : Zn | |
| Cooler Custody Sea | s: Yes N | | Correction I | actor: | | _ | 8 | | d Ext | | | | | | | | | | | | TAT starts | the day r | ecevied b | y the |
| Sample Custody Sea | als: Yes N | o NHA | Total Conta | iners: | | or of | le E300 | - 52 | diffie | 1005 | 1 | | | | | | | | | | lab, if | received | by 4:30pm | |
| Sample Ide | ntification | Matrix | Date Sampled | Time Sampled | Depth | Number | Chloride | BTEX 8021 | TPH Modified | TPH TX1005 | | | | | | | | | | | Sam | ple Co | nments | |
| -X:10 5P300 | Sufface | 571 | 8-16-20 | | - | 1 | 1 | TX | X | | | | | | | | | . , | - | | | | | |
| 3:10 SP2 | 211 | Soil | 3-10-20 | | 1 | 17 | 1 | V | J | | | | | | | | - | | | | | | | |
| 0.00 | | 1 | 1015 | | | † | + | 1 | | | | | | | | | | | | | | | | |
| | : | | i | | | T - | | | - | | | | | | | | | | | T | | | | |
| | | | | | | | 1 | | t^{-} | | | | | | | | | | | | | | | F |
| | | | | | | 1 | | 1 | 1 | _ | | | | | | | | | | 1 | | | | |
| | | | | | - | 1 | | 1 | 1 | | | | 1 | 1 | | | | | | 1 | | ~ | | |
| | | | | | | 1 | | | | | | | 1. | | | - | | | | 1 | | | | |
| | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | |
| | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Total 200.7/ | 6010 200.8/ | 6020: | я | RCRA 13E | PPM Texas | 11 A | I Sh | Ac Ra | Do I | 2 C4 | Ca C | r Co | Cui F | a Dh | Ma N | 4n M | o Ni | K So | Δa | SiO2 | Na Sr Ti | Sn II | V 7n | |
| 11 | l(s) and Metal(s) | | | | LP 6010: 8 | | | | | | | | | | | | | 06 | ,,,9 | | 31 / 245.1 | | A CONTRACTOR | Hg |
| Notice: Signature of this o | focument and resinquis | hment of sa | mples constitute | s a valid ourcha | se order from clie | nt come | any to X | enco. Ps | affillatos | and su | contrac | tors il | assinns | standan | terms | and cor | villions | | | | | | | |
| of service. Xenco will be of Xenco. A minimum ch | Hable only for the cost arge of \$75,00 will be a | of samples a | and shall not ass th project and a | charge of \$5 for | sibility for any los each sample sub | ses or e mitted to | xpenses Xenco, | incurred but not a | by the i | client if s | uch loss arms wil | es are d I be enf | ive to cl | rcumstar niess pre | viously i | ond the regotia | control ed. | | | | | | | |
| Relinquished b | y: (Signature) | | Received | by: (Signat | ure) | | Date | z/Time | | R | elinqui | ished | bу: (S | ignatu | re) | 1 | Rec | eived | by: (S | ignatu | ıre) | D | ate/Time | |
| June ! | Ry | CA | Ri | | No. | 8 | 11-2 | 0/3 | 2 | 2 | | | | | | 13 | yt | W | | | | 8 | W | W |
| 5 | | 4 | | | | + | | | | 1 | | | | | | _ | | | | | | | 11 | · |
| 4 | | 1 | | | | | | | | 16 | | | | | | 1 | | | | | 1 | | | , |

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 08.12.2020 11.20.00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 669786

Temperature Measuring device used: IR-8

| | Sample Receipt Checklist | | Comments |
|---|--------------------------|-----|----------------------------|
| #1 *Temperature of cooler(s)? | | .2 | |
| #2 *Shipping container in good condition? | | Yes | |
| #3 *Samples received on ice? | | Yes | |
| #4 *Custody Seals intact on shipping contain | ner/ cooler? | N/A | |
| #5 Custody Seals intact on sample bottles? | | N/A | |
| #6*Custody Seals Signed and dated? | | N/A | |
| #7 *Chain of Custody present? | | Yes | |
| #8 Any missing/extra samples? | | No | |
| #9 Chain of Custody signed when relinquish | ned/ received? | Yes | |
| #10 Chain of Custody agrees with sample la | abels/matrix? | Yes | |
| #11 Container label(s) legible and intact? | | Yes | |
| #12 Samples in proper container/ bottle? | | Yes | BTEX was in bulk container |
| #13 Samples properly preserved? | | Yes | |
| #14 Sample container(s) intact? | | Yes | |
| #15 Sufficient sample amount for indicated to | test(s)? | Yes | |
| #16 All samples received within hold time? | | Yes | |
| #17 Subcontract of sample(s)? | | N/A | |
| #18 Water VOC samples have zero headsp | ace? | N/A | |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

| Analyst: | | PH Device/Lot#: | | |
|----------|-------------------------|---------------------------|-------------------------|--|
| | Checklist completed by: | Ballo Tol Brianna Teel | Date: <u>08.12.2020</u> | |
| | Checklist reviewed by: | Jessian Vramer | Date: 08 12 2020 | |

Jessica Kramer

Received by OCD: 3/2/2021 12:31:25 PM eurofins 💸 **Environment Testing**

Certificate of Analysis Summary 686408

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wild Ride Federal # D01H

Project Id: **Contact:**

11245

PM

Date Received in Lab: Wed 01.27.2021 15:15

Report Date: 02.03.2021 16:11

Project Location:

Rural Eddy County

Project Manager: Jessica Kramer Lab Id: 686408-001 686408-002 686408-003 686408-004 686408-005 686408-006 CD 1 @ 2' CD 1 @ 2' CD 1 @ 4' CD 2 @ 2' SD 2 @ 2' SD 2 @ 4'

| Analysis Requested | Field Id: | SP 1 @ | 2' | SP 1 @ | 3' | SP 1 @ 4 | l' | SP 2 @ 2 | 2' | SP 2 @ 3 | 3' | SP 2 @ 4 | ·' |
|------------------------------------|------------|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|------------|---------|
| Analysis Requested | Depth: | 2- ft | | 3- ft | | 4- ft | | 2- ft | | 3- ft | | 4- ft | |
| | Matrix: | SOIL | | SOIL | | SOIL | , | SOIL | | SOIL | , | SOIL | |
| | Sampled: | 01.27.2021 | 00:00 | 01.27.2021 | 00:00 | 01.27.2021 | 00:00 | 01.27.2021 | 00:00 | 01.27.2021 | 00:00 | 01.27.2021 | 00:00 |
| BTEX by EPA 8021B | Extracted: | 01.29.2021 | 15:08 | 01.29.2021 | 15:08 | 01.29.2021 | 15:08 | 01.29.2021 | 15:08 | 01.29.2021 | 15:08 | 01.29.2021 | 15:08 |
| | Analyzed: | 01.29.2021 | 23:57 | 01.30.2021 | 00:20 | 01.30.2021 | 00:42 | 01.30.2021 | 01:05 | 01.30.2021 | 01:27 | 01.30.2021 | 01:50 |
| | Units/RL: | mg/kg | RL |
| Benzene | | < 0.00201 | 0.00201 | < 0.00201 | 0.00201 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 |
| Toluene | | < 0.00201 | 0.00201 | < 0.00201 | 0.00201 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 |
| Ethylbenzene | | < 0.00201 | 0.00201 | < 0.00201 | 0.00201 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 |
| m,p-Xylenes | | < 0.00402 | 0.00402 | < 0.00402 | 0.00402 | < 0.00399 | 0.00399 | < 0.00399 | 0.00399 | < 0.00401 | 0.00401 | < 0.00401 | 0.00401 |
| o-Xylene | | < 0.00201 | 0.00201 | < 0.00201 | 0.00201 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 |
| Total Xylenes | | < 0.00201 | 0.00201 | < 0.00201 | 0.00201 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 |
| Total BTEX | | < 0.00201 | 0.00201 | < 0.00201 | 0.00201 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 | < 0.00200 | 0.00200 |
| Inorganic Anions by EPA 300 | Extracted: | 01.29.2021 | 12:46 | 01.29.2021 | 12:46 | 01.29.2021 | 12:46 | 01.29.2021 | 12:46 | 01.29.2021 | 12:46 | 01.29.2021 | 12:46 |
| | Analyzed: | 01.29.2021 | 15:34 | 01.29.2021 | 15:51 | 01.29.2021 | 15:56 | 01.29.2021 | 16:02 | 01.29.2021 | 16:08 | 01.29.2021 | 16:25 |
| | Units/RL: | mg/kg | RL |
| Chloride | | 16.6 | 9.96 | 47.2 | 10.0 | 53.5 | 10.0 | 21.4 | 9.90 | 53.6 | 10.1 | 53.6 | 9.92 |
| TPH by SW8015 Mod | Extracted: | 02.02.2021 | 12:00 | 02.02.2021 | 12:00 | 02.02.2021 | 12:00 | 02.02.2021 | 12:00 | 02.02.2021 | 12:00 | 02.02.2021 | 12:00 |
| SUB: T104704400-20-21 | Analyzed: | 02.02.2021 | 16:44 | 02.02.2021 | 17:26 | 02.02.2021 | 17:47 | 02.02.2021 | 18:08 | 02.02.2021 | 18:29 | 02.02.2021 | 18:49 |
| | Units/RL: | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | < 50.0 | 50.0 | <49.8 | 49.8 | < 50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | < 50.0 | 50.0 |
| Diesel Range Organics (DRO) | | < 50.0 | 50.0 | <49.8 | 49.8 | < 50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | < 50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | < 50.0 | 50.0 | <49.8 | 49.8 | < 50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | < 50.0 | 50.0 |
| Total TPH | | < 50.0 | 50.0 | <49.8 | 49.8 | < 50.0 | 50.0 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Weamer



Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wild Ride Federal # D01H

Project Id:

Contact:

11245

PM

Date Received in Lab: Wed 01.27.2021 15:15

Report Date: 02.03.2021 16:11

Project Location:

Rural Eddy County

Project Manager: Jessica Kramer

| | Lab Id: | 686408-0 | 007 | 686408-0 | 08 | 686408-0 | 009 | | |
|------------------------------------|------------|------------|---------|------------|---------|------------|---------|--|--|
| Analysis Requested | Field Id: | SP 3 @ | 2' | SP 3 @ | 3' | SP 3 @ 4 | ļ' | | |
| Analysis Requesieu | Depth: | 2- ft | | 3- ft | | 4- ft | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | | |
| | Sampled: | 01.27.2021 | 00:00 | 01.27.2021 | 00:00 | 01.27.2021 | 00:00 | | |
| BTEX by EPA 8021B | Extracted: | 01.29.2021 | 15:08 | 01.29.2021 | 15:08 | 01.29.2021 | 15:08 | | |
| | Analyzed: | 01.30.2021 | 02:12 | 01.30.2021 | 02:34 | 01.30.2021 | 02:57 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Benzene | | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | | |
| Toluene | | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | | |
| Ethylbenzene | | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | | |
| m,p-Xylenes | | < 0.00399 | 0.00399 | < 0.00398 | 0.00398 | < 0.00399 | 0.00399 | | |
| o-Xylene | | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | | |
| Total Xylenes | | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | | |
| Total BTEX | | < 0.00200 | 0.00200 | < 0.00199 | 0.00199 | < 0.00200 | 0.00200 | | |
| Inorganic Anions by EPA 300 | Extracted: | 01.29.2021 | 12:46 | 01.29.2021 | 12:46 | 01.29.2021 | 12:46 | | |
| | Analyzed: | 01.29.2021 | 16:30 | 01.29.2021 | 16:36 | 01.29.2021 | 16:42 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Chloride | | 523 | 9.96 | 953 | 10.1 | 56.9 | 10.0 | | |
| TPH by SW8015 Mod | Extracted: | 02.02.2021 | 12:00 | 02.02.2021 | 12:00 | 02.02.2021 | 12:00 | | |
| SUB: T104704400-20-21 | Analyzed: | 02.02.2021 | 19:10 | 02.02.2021 | 19:31 | 02.02.2021 | 19:52 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Gasoline Range Hydrocarbons (GRO) | | < 50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | | |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | | |
| Total TPH | | < 50.0 | 50.0 | <49.9 | 49.9 | <49.8 | 49.8 | | |

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Vramer

Analytical Report 686408

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Wild Ride Federal # D01H 11245 02.03.2021

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



02.03.2021

Project Manager: PM

Etech Environmental & Safety Solution, Inc

P.O. Box 62228 Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): 686408

Wild Ride Federal # D01H

Project Address: Rural Eddy County

PM:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 686408. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 686408 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Xenco

Environment Testing

Sample Cross Reference 686408

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|-----------------------|--------------|---------------|
| SP 1 @ 2' | S | 01.27.2021 00:00 | 2 ft | 686408-001 |
| SP 1 @ 3' | S | 01.27.2021 00:00 | 3 ft | 686408-002 |
| SP 1 @ 4' | S | 01.27.2021 00:00 | 4 ft | 686408-003 |
| SP 2 @ 2' | S | 01.27.2021 00:00 | 2 ft | 686408-004 |
| SP 2 @ 3' | S | 01.27.2021 00:00 | 3 ft | 686408-005 |
| SP 2 @ 4' | S | 01.27.2021 00:00 | 4 ft | 686408-006 |
| SP 3 @ 2' | S | 01.27.2021 00:00 | 2 ft | 686408-007 |
| SP 3 @ 3' | S | 01.27.2021 00:00 | 3 ft | 686408-008 |
| SP 3 @ 4' | S | 01.27.2021 00:00 | 4 ft | 686408-009 |

CASE NARRATIVE

Page 69 of 110

eurofins **Environment Testing** Xenco

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wild Ride Federal # D01H

Project ID: Report Date: 02.03.2021 11245 Work Order Number(s): 686408 Date Received: 01.27.2021

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Soil

Sample Id: SP 1 @ 2' Matrix:

Date Received:01.27.2021 15:15

Lab Sample Id: 686408-001 Date Collected: 01.27.2021 00:00

Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Date Prep: 01.29.2021 12:46 % Mo

02.02.2021 12:00

Analyst: MAB

% Moisture:

Seq Number: 3149461

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 16.6 | 9.96 | mg/kg | 01.29.2021 15:34 | | 1 |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Date Prep:

% Moisture:

Analyst: ARM Seq Number: 3149862

Basis: Wet Weight SUB: T104704400-20-21

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|-----------|------------|-------|--------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | < 50.0 | 50.0 | | mg/kg | 02.02.2021 16:44 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | < 50.0 | 50.0 | | mg/kg | 02.02.2021 16:44 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | < 50.0 | 50.0 | | mg/kg | 02.02.2021 16:44 | U | 1 |
| Total TPH | PHC635 | < 50.0 | 50.0 | | mg/kg | 02.02.2021 16:44 | U | 1 |
| Surrogate | C | as Number | % Recovery | Units | Limits | Analysis Date | Flag | |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date |
|----------------|------------|------------|-------|--------|------------------|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-130 | 02.02.2021 16:44 |
| o-Terphenyl | 84-15-1 | 123 | % | 70-130 | 02.02.2021 16:44 |



Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: SP 1 @ 2' Matrix: Soil Date Received:01.27.2021 15:15

Lab Sample Id: 686408-001 Date Collected: 01.27.2021 00:00 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 01.29.2021 15:08 % Moisture:

Seq Number: 3149458

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|------------|-------|--------|------------------|------|-----|
| Benzene | 71-43-2 | < 0.00201 | 0.00201 | | mg/kg | 01.29.2021 23:57 | U | 1 |
| Toluene | 108-88-3 | < 0.00201 | 0.00201 | | mg/kg | 01.29.2021 23:57 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00201 | 0.00201 | | mg/kg | 01.29.2021 23:57 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00402 | 0.00402 | | mg/kg | 01.29.2021 23:57 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00201 | 0.00201 | | mg/kg | 01.29.2021 23:57 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00201 | 0.00201 | | mg/kg | 01.29.2021 23:57 | U | 1 |
| Total BTEX | | < 0.00201 | 0.00201 | | mg/kg | 01.29.2021 23:57 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 97 | % | 70-130 | 01.29.2021 23:57 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 101 | % | 70-130 | 01.29.2021 23:57 | | |



Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: SP 1 @ 3' Matrix: Soil Date Received:01.27.2021 15:15

Lab Sample Id: 686408-002 Date Collected: 01.27.2021 00:00

Analytical Method: Inorganic Anions by EPA 300

MAB Tech:

MAB Analyst:

Seq Number: 3149461

01.29.2021 12:46

Sample Depth: 3 ft

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 47.2 | 10.0 | mg/kg | 01.29.2021 15:51 | | 1 |

Date Prep:

Analytical Method: TPH by SW8015 Mod

DVM Tech:

o-Terphenyl

ARM Analyst:

Date Prep: 02.02.2021 12:00 % Moisture:

70-130

Basis: Wet Weight

02.02.2021 17:26

Prep Method: SW8015P

Seq Number: 3149862 SUB: T104704400-20-21

84-15-1

| Parameter | Cas Number | r Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------------|-------|--------|----------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | | mg/kg | 02.02.2021 17:26 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | | mg/kg | 02.02.2021 17:26 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | | mg/kg | 02.02.2021 17:26 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | | mg/kg | 02.02.2021 17:26 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 86 | % | 70-130 | 02.02.2021 17:26 | | |

111

Wet Weight



Certificate of Analytical Results 686408

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: SP 1 @ 3' Matrix: Soil Date Received:01.27.2021 15:15

Lab Sample Id: 686408-002 Date Collected: 01.27.2021 00:00 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 01.29.2021 15:08 % Moisture:

Analyst. MAD Date Prep: 01.29.2021 13:08 Basis:
Seq Number: 3149458

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---------------|-------------|-----------|---------|-------|------------------|------|-----|
| Benzene | 71-43-2 | < 0.00201 | 0.00201 | mg/kg | 01.30.2021 00:20 | U | 1 |
| Toluene | 108-88-3 | < 0.00201 | 0.00201 | mg/kg | 01.30.2021 00:20 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00201 | 0.00201 | mg/kg | 01.30.2021 00:20 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00402 | 0.00402 | mg/kg | 01.30.2021 00:20 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00201 | 0.00201 | mg/kg | 01.30.2021 00:20 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00201 | 0.00201 | mg/kg | 01.30.2021 00:20 | U | 1 |
| Total BTEX | | < 0.00201 | 0.00201 | mg/kg | 01.30.2021 00:20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|----------------------|------|
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 01.30.2021 00:20 | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 01.30.2021 00:20 | |



Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

01.29.2021 12:46

Sample Id: SP 1 @ 4' Matrix: Soil Date Received:01.27.2021 15:15

Lab Sample Id: 686408-003 Date Collected: 01.27.2021 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

MAB Analyst:

Basis: Wet Weight

Seq Number: 3149461

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 53.5 | 10.0 | mg/kg | 01.29.2021 15:56 | | 1 |

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

DVM Tech:

Analyst:

ARM

Date Prep: 02.02.2021 12:00 % Moisture:

Basis: Wet Weight SUB: T104704400-20-21

Seq Number: 3149862

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|-----------|------------|-------|--------|----------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | | mg/kg | 02.02.2021 17:47 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | < 50.0 | 50.0 | | mg/kg | 02.02.2021 17:47 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | < 50.0 | 50.0 | | mg/kg | 02.02.2021 17:47 | U | 1 |
| Total TPH | PHC635 | < 50.0 | 50.0 | | mg/kg | 02.02.2021 17:47 | U | 1 |
| Surrogate | C | as Number | % Recovery | Units | Limits | Analysis Date | Flag | |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date |] |
|----------------|------------|------------|-------|--------|------------------|---|
| 1-Chlorooctane | 111-85-3 | 82 | % | 70-130 | 02.02.2021 17:47 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 02.02.2021 17:47 | |



Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: SP 1 @ 4' Matrix: Soil Date Received:01.27.2021 15:15

Lab Sample Id: 686408-003 Date Collected: 01.27.2021 00:00 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 01.29.2021 15:08 % Moisture:

Seq Number: 3149458

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|------------|-------|--------|------------------|------|-----|
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 00:42 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 00:42 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 00:42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00399 | 0.00399 | | mg/kg | 01.30.2021 00:42 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 00:42 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 00:42 | U | 1 |
| Total BTEX | | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 00:42 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 106 | % | 70-130 | 01.30.2021 00:42 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 103 | % | 70-130 | 01.30.2021 00:42 | | |



Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: **SP 2** @ **2'**

Matrix:

Date Received:01.27.2021 15:15

Lab Sample Id: 686408-004

Matrix: Soil
Date Collected: 01.27.2021 00:00

Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:
Analyst:

MAB

MAB

Date Prep: 01.29.2021 12:46

% Moisture:

Basis:

Wet Weight

Seq Number: 3149461

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 21.4 | 9.90 | mg/kg | 01.29.2021 16:02 | | 1 |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

Analyst: ARM

Date Prep: 02.02.2021 12:00

% Moisture:

Basis: Wet Weight

Seq Number: 3149862 SUB: T104704400-20-21

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------------|-------|--------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | | mg/kg | 02.02.2021 18:08 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | | mg/kg | 02.02.2021 18:08 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | | mg/kg | 02.02.2021 18:08 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | | mg/kg | 02.02.2021 18:08 | U | 1 |
| Surrogate | (| Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |

Wet Weight



Certificate of Analytical Results 686408

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: SP 2 @ 2' Matrix: Soil Date Received:01.27.2021 15:15

Lab Sample Id: 686408-004 Date Collected: 01.27.2021 00:00 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 01.29.2021 15:08 % Moisture: Basis:

Seq Number: 3149458

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---------------|-------------|-----------|---------|-------|------------------|------|-----|
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | mg/kg | 01.30.2021 01:05 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | mg/kg | 01.30.2021 01:05 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00200 | 0.00200 | mg/kg | 01.30.2021 01:05 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00399 | 0.00399 | mg/kg | 01.30.2021 01:05 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00200 | 0.00200 | mg/kg | 01.30.2021 01:05 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00200 | 0.00200 | mg/kg | 01.30.2021 01:05 | U | 1 |
| Total BTEX | | < 0.00200 | 0.00200 | mg/kg | 01.30.2021 01:05 | U | 1 |
| | | | | | | | |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|----------------------|------|
| 4-Bromofluorobenzene | 460-00-4 | 111 | % | 70-130 | 01.30.2021 01:05 | |
| 1,4-Difluorobenzene | 540-36-3 | 103 | % | 70-130 | 01.30.2021 01:05 | |

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Soil

Sample Id: SP 2 @ 3' Matrix:

Date Received:01.27.2021 15:15

Lab Sample Id: 686408-005 Date Collected: 01.27.2021 00:00

Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst:

Date Prep: 01.29.2021 12:46

% Moisture:

Seq Number: 3149461

MAB

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 53.6 | 10.1 | mg/kg | 01.29.2021 16:08 | | 1 |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst:

ARM Date Prep: 02.02.2021 12:00 % Moisture:

Basis: Wet Weight SUB: T104704400-20-21

Seq Number: 3149862

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------------|-------|--------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | | mg/kg | 02.02.2021 18:29 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | | mg/kg | 02.02.2021 18:29 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | | mg/kg | 02.02.2021 18:29 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | | mg/kg | 02.02.2021 18:29 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date |
|----------------|------------|------------|-------|--------|------------------|
| 1-Chlorooctane | 111-85-3 | 76 | % | 70-130 | 02.02.2021 18:29 |
| o-Terphenyl | 84-15-1 | 100 | % | 70-130 | 02.02.2021 18:29 |

Wet Weight

Xenco

Certificate of Analytical Results 686408

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: SP 2 @ 3' Matrix: Soil Date Received:01.27.2021 15:15

Lab Sample Id: 686408-005 Date Collected: 01.27.2021 00:00 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 01.29.2021 15:08 % Moisture: Basis:

540-36-3

Seq Number: 3149458

1,4-Difluorobenzene

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|------------|-------|--------|----------------------|------|-----|
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 01:27 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 01:27 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 01:27 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00401 | 0.00401 | | mg/kg | 01.30.2021 01:27 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 01:27 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 01:27 | U | 1 |
| Total BTEX | | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 01:27 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 117 | % | 70-130 | 01.30.2021 01:27 | | |

109

%

70-130

01.30.2021 01:27

Dil



Certificate of Analytical Results 686408

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: SP 2 @ 4' Matrix:

Date Received:01.27.2021 15:15

Lab Sample Id: 686408-006

Soil Date Collected: 01.27.2021 00:00

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech:

Tech:

MAB

MAB Analyst: Seq Number: 3149461

Date Prep:

01.29.2021 12:46

% Moisture:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag |
|-----------|------------|--------|------|-------|------------------|------|
| Chloride | 16887-00-6 | 53.6 | 9.92 | mg/kg | 01.29.2021 16:25 | |

Analytical Method: TPH by SW8015 Mod

DVM

Analyst:

Seq Number: 3149862

ARM

Date Prep:

02.02.2021 12:00

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Prep Method: SW8015P

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------------|-------|----------------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | | mg/kg | 02.02.2021 18:49 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | < 50.0 | 50.0 | | mg/kg | 02.02.2021 18:49 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | < 50.0 | 50.0 | | mg/kg | 02.02.2021 18:49 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | | mg/kg | 02.02.2021 18:49 | U | 1 |
| Surrogate | (| Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4 611 | | 44.07.0 | 0.4 | | 5 0.400 | 00 00 0001 10 10 | | |



Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: SP 2 @ 4' Matrix: Soil Date Received:01.27.2021 15:15

Lab Sample Id: 686408-006 Date Collected: 01.27.2021 00:00 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 01.29.2021 15:08 % Moisture:

Seq Number: 3149458

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|------------|-------|--------|------------------|------|-----|
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 01:50 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 01:50 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 01:50 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00401 | 0.00401 | | mg/kg | 01.30.2021 01:50 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 01:50 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 01:50 | U | 1 |
| Total BTEX | | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 01:50 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 101 | % | 70-130 | 01.30.2021 01:50 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 110 | % | 70-130 | 01.30.2021 01:50 | | |

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: SP 3 @ 2' Matrix:

Date Received:01.27.2021 15:15

Lab Sample Id: 686408-007

Seq Number: 3149461

Soil Date Collected: 01.27.2021 00:00

Sample Depth: 2 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: Analyst: MAB

MAB

Date Prep:

01.29.2021 12:46

% Moisture:

Basis:

Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 523 | 9.96 | mg/kg | 01.29.2021 16:30 | | 1 |

Analytical Method: TPH by SW8015 Mod

DVM

ARM Analyst:

o-Terphenyl

Tech:

Date Prep:

02.02.2021 12:00

70-130

% Moisture:

Basis: Wet Weight SUB: T104704400-20-21

02.02.2021 19:10

Prep Method: SW8015P

Seq Number: 3149862

| Parameter | Cas Number | r Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------------|-------|--------|----------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | | mg/kg | 02.02.2021 19:10 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | < 50.0 | 50.0 | | mg/kg | 02.02.2021 19:10 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | < 50.0 | 50.0 | | mg/kg | 02.02.2021 19:10 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | | mg/kg | 02.02.2021 19:10 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 83 | % | 70-130 | 02.02.2021 19:10 | | |

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84-15-1



Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: SP 3 @ 2' Matrix: Soil Date Received:01.27.2021 15:15

Lab Sample Id: 686408-007 Date Collected: 01.27.2021 00:00 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 01.29.2021 15:08 % Moisture:

Seq Number: 3149458

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|---------------|-------------|-----------|------------|-------|--------|------------------|------|-----|
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 02:12 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 02:12 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 02:12 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00399 | 0.00399 | | mg/kg | 01.30.2021 02:12 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 02:12 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 02:12 | U | 1 |
| Total BTEX | | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 02:12 | U | 1 |
| Surrogate | Cs | s Number | % Recovery | Units | Limits | Analysis Date | Flag | |

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: SP 3 @ 3' Matrix: Soil Date Received:01.27.2021 15:15

Wet Weight

Lab Sample Id: 686408-008

Seq Number: 3149461

Date Collected: 01.27.2021 00:00

Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: Analyst: MAB

MAB

Date Prep:

01.29.2021 12:46

% Moisture:

Basis:

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 953 01.29.2021 16:36 10.1 mg/kg

Analytical Method: TPH by SW8015 Mod

DVM

Tech: Analyst:

Seq Number: 3149862

ARM

Date Prep:

02.02.2021 12:00

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Prep Method: SW8015P

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|-----------|------------|-------|--------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | | mg/kg | 02.02.2021 19:31 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | | mg/kg | 02.02.2021 19:31 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | | mg/kg | 02.02.2021 19:31 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | | mg/kg | 02.02.2021 19:31 | U | 1 |
| Surrogate | C | as Number | % Recovery | Units | Limits | Analysis Date | Flag | |

Wet Weight



Certificate of Analytical Results 686408

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: SP 3 @ 3' Matrix: Soil Date Received:01.27.2021 15:15

Lab Sample Id: 686408-008 Date Collected: 01.27.2021 00:00 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

1,4-Difluorobenzene

Analyst: MAB Date Prep: 01.29.2021 15:08 % Moisture:

Analyst. MAD Date Prep: 01.29.2021 13:08 Basis:
Seq Number: 3149458

540-36-3

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|------------|-------|--------|------------------|------|-----|
| Benzene | 71-43-2 | < 0.00199 | 0.00199 | | mg/kg | 01.30.2021 02:34 | U | 1 |
| Toluene | 108-88-3 | < 0.00199 | 0.00199 | | mg/kg | 01.30.2021 02:34 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00199 | 0.00199 | | mg/kg | 01.30.2021 02:34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00398 | 0.00398 | | mg/kg | 01.30.2021 02:34 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00199 | 0.00199 | | mg/kg | 01.30.2021 02:34 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00199 | 0.00199 | | mg/kg | 01.30.2021 02:34 | U | 1 |
| Total BTEX | | < 0.00199 | 0.00199 | | mg/kg | 01.30.2021 02:34 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 113 | % | 70-130 | 01.30.2021 02:34 | | |

103

%

70-130

01.30.2021 02:34



Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

Sample Id: SP 3 @ 4' Matrix: Soil Date Received:01.27.2021 15:15

Lab Sample Id: 686408-009

Date Collected: 01.27.2021 00:00

Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: Analyst:

Tech:

MAB

MAB

Date Prep:

01.29.2021 12:46

% Moisture:

Basis:

Wet Weight

Seq Number: 3149461

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 56.9 | 10.0 | mg/kg | 01.29.2021 16:42 | | 1 |

Analytical Method: TPH by SW8015 Mod

DVM

Analyst:

Seq Number: 3149862

ARM

Date Prep:

02.02.2021 12:00

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Prep Method: SW8015P

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------------|-------|--------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | | mg/kg | 02.02.2021 19:52 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | | mg/kg | 02.02.2021 19:52 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | | mg/kg | 02.02.2021 19:52 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | | mg/kg | 02.02.2021 19:52 | U | 1 |
| Surrogate | (| Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date |
|----------------|------------|------------|-------|--------|------------------|
| 1-Chlorooctane | 111-85-3 | 83 | % | 70-130 | 02.02.2021 19:52 |
| o-Terphenyl | 84-15-1 | 112 | % | 70-130 | 02.02.2021 19:52 |



Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal # D01H

01.29.2021 15:08

Sample Id: SP 3 @ 4' Matrix: Soil Date Received:01.27.2021 15:15

Date Prep:

Lab Sample Id: 686408-009 Date Collected: 01.27.2021 00:00 Sample Depth: 4 ft

460-00-4

Analytical Method: BTEX by EPA 8021B

Tech: MAB

MAB Analyst:

Seq Number: 3149458

4-Bromofluorobenzene

Prep Method: SW5035A

% Moisture:

Basis: Wet Weight

01.30.2021 02:57

70-130

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|---------------------|-------------|------------|------------|-------|--------|------------------|------|-----|
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 02:57 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 02:57 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 02:57 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00399 | 0.00399 | | mg/kg | 01.30.2021 02:57 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 02:57 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 02:57 | U | 1 |
| Total BTEX | | < 0.00200 | 0.00200 | | mg/kg | 01.30.2021 02:57 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 100 | % | 70-130 | 01.30.2021 02:57 | | |

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Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

E300P

E300P

E300P

Flag

Prep Method:

Prep Method:



QC Summary 686408

Etech Environmental & Safety Solution, Inc

Wild Ride Federal # D01H

Analytical Method: Inorganic Anions by EPA 300 Prep Method: Seq Number: 3149461 Matrix: Solid Date Prep:

01.29.2021 7720389-1-BLK LCS Sample Id: 7720389-1-BKS LCSD Sample Id: 7720389-1-BSD MB Sample Id:

LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride <10.0 200 209 105 90-110 20 01.29.2021 15:05 206 103 1 mg/kg

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3149461 Matrix: Soil Date Prep: 01.29.2021 686393-002 MS Sample Id: 686393-002 S MSD Sample Id: 686393-002 SD Parent Sample Id:

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec %Rec Limit Date Result 01.29.2021 16:59 Chloride 40.0 202 248 103 250 104 90-110 1 20 mg/kg

Analytical Method: Inorganic Anions by EPA 300

3149461 Seq Number: Matrix: Soil Date Prep: 01.29.2021 MS Sample Id: 686408-001 S MSD Sample Id: 686408-001 SD Parent Sample Id: 686408-001

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limite Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 222 20 01.29.2021 15:39 16.6 202 102 219 101 90-110 1 mg/kg

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: 3149862 Matrix: Solid Seq Number: Date Prep: 02.02.2021 MB Sample Id: LCS Sample Id: 7720660-1-BKS LCSD Sample Id: 7720660-1-BSD 7720660-1-BLK

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis **Parameter** Result Limit Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 02.02.2021 12:05 843 < 50.0 1000 84 870 87 70-130 3 20 mg/kg 02.02.2021 12:05 Diesel Range Organics (DRO) 852 85 837 70-130 20 < 50.0 1000 84 2 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Date Flag %Rec Flag 02.02.2021 12:05 1-Chlorooctane 82 83 76 70-130 % 02.02.2021 12:05 o-Terphenyl 111 101 92 70-130 %

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method:

Seq Number: 3149862 Matrix: Solid Date Prep: 02.02.2021

MB Sample Id: 7720660-1-BLK

MBUnits Analysis Flag **Parameter** Result Date 02.02.2021 11:45 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Flag

Flag



Etech Environmental & Safety Solution, Inc

Wild Ride Federal # D01H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3149862 Matrix: Soil Date Prep: 02.02.2021

MSS a b bl (0002020015) MSS a b bl (0002020015) MSS a b bl (0002020015)

Parent Sample Id: 686393-001 MS Sample Id: 686393-001 S MSD Sample Id: 686393-001 SD

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis

MSD MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) <49.9 997 842 84 878 20 02.02.2021 13:08 88 70-130 4 mg/kg 02.02.2021 13:08 70-130 20 mg/kg Diesel Range Organics (DRO) <49.9 997 823 83 835 1 84

MSD Units MS MS **MSD** Limits Analysis **Surrogate** %Rec Flag Flag Date %Rec 02.02.2021 13:08 1-Chlorooctane 84 87 70-130 % 100 02.02.2021 13:08 o-Terphenyl 101 70-130 %

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3149458Matrix:SolidDate Prep:01.29.2021

 Seq Number:
 3149458
 Matrix:
 Solid
 Date Prep:
 01.29.2021

 MB Sample Id:
 7720348-1-BLK
 LCS Sample Id:
 7720348-1-BKS
 LCSD Sample Id:
 7720348-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date |
|--------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|--------------|-------|------------------|
| Benzene | < 0.00200 | 0.100 | 0.0892 | 89 | 0.0956 | 96 | 70-130 | 7 | 35 | mg/kg | 01.29.2021 21:53 |
| Toluene | < 0.00200 | 0.100 | 0.0880 | 88 | 0.0909 | 91 | 70-130 | 3 | 35 | mg/kg | 01.29.2021 21:53 |
| Ethylbenzene | < 0.00200 | 0.100 | 0.0893 | 89 | 0.0949 | 95 | 71-129 | 6 | 35 | mg/kg | 01.29.2021 21:53 |
| m,p-Xylenes | < 0.00400 | 0.200 | 0.182 | 91 | 0.191 | 96 | 70-135 | 5 | 35 | mg/kg | 01.29.2021 21:53 |
| o-Xylene | < 0.00200 | 0.100 | 0.0906 | 91 | 0.0972 | 97 | 71-133 | 7 | 35 | mg/kg | 01.29.2021 21:53 |

MBMB LCS LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 01.29.2021 21:53 1,4-Difluorobenzene 104 95 96 70-130 % 01.29.2021 21:53 4-Bromofluorobenzene 97 98 70-130 % 103

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3149458Matrix:SoilDate Prep:01.29.2021

Parent Sample Id: 686408-001 MS Sample Id: 686408-001 S MSD Sample Id: 686408-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|------------------|-----------------|--------------|------------|---------------|-------------|--------|------|--------------|-------|------------------|------|
| Benzene | < 0.00200 | 0.100 | 0.0994 | 99 | 0.0977 | 97 | 70-130 | 2 | 35 | mg/kg | 01.29.2021 22:38 | |
| Toluene | < 0.00200 | 0.100 | 0.101 | 101 | 0.0984 | 97 | 70-130 | 3 | 35 | mg/kg | 01.29.2021 22:38 | |
| Ethylbenzene | < 0.00200 | 0.100 | 0.104 | 104 | 0.0988 | 98 | 71-129 | 5 | 35 | mg/kg | 01.29.2021 22:38 | |
| m,p-Xylenes | < 0.00401 | 0.200 | 0.212 | 106 | 0.197 | 98 | 70-135 | 7 | 35 | mg/kg | 01.29.2021 22:38 | |
| o-Xylene | < 0.00200 | 0.100 | 0.106 | 106 | 0.101 | 100 | 71-133 | 5 | 35 | mg/kg | 01.29.2021 22:38 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|------------|------------|-------------|-------------|--------|-------|------------------|
| 1,4-Difluorobenzene | 98 | | 94 | | 70-130 | % | 01.29.2021 22:38 |
| 4-Bromofluorobenzene | 100 | | 98 | | 70-130 | % | 01.29.2021 22:38 |



Chain of Custody

Work Order No: 686468

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334

| Project Manager: Joe Low | Y | | | Bill to: (in | different | | | | | | | | | W | ork Orde | er Comments |
|-----------------------------|------------|-----------------|-----------------|-------------------|---------------|-----------|------|-----------|----------|-------|---------|---------|--------------|--------|----------|------------------------------------|
| Company Name: ETech ENV | | tal & Safet | Þ | Company | Name: | CO | G | | | | | Progra | am: UST/P | ST 🗌 P | RP Br | ownfields RRC Superfund |
| Address: 3100 Plan | | | , | A | ddress: | | | | | | | | te of Proje | | | |
| City, State ZIP: Louington, | | 38260 | | City, St | ate ZIP: | | | | | | | Report | ing:Level II | Lev | | PST/UST TRRP Level IV |
| Phone: 575-396 | | | Email: | PMacte | chen | U.Co | m | + clie | 16 | | | Delive | rables: ED | D 🗌 | AD | PaPT Other: |
| Project Name: Wild Ride | | HIOOLE | Tu | ırn Around | | | • | | A | NALY | SIS REC | QUEST | | | | Preservative Codes |
| Project Number: 11245 | | | Routin | ne 🛨 | Pres. Code | | | | | | | | | | | MeOH: Me |
| Project Location Runal Edd | y nount | ч | Rush: | | | | | | | | | | | | | None: NO |
| Sampler's Name: Miguel | Pamir | 67 | Due D | Date: | | | | | | | | | | | | HNO3: HN |
| PO #: | | Quote #: | | | | | | | | | | | | | | H2S04: H2 |
| AMPLE RECEIPT 1 | emp Blank: | Yes No | Wet Ice: | (Yes) No | | | | | | | | | | | | HCL: HL |
| | 15.6 | | ermometer | ar-alatemaph-real | Containers | | | | | | | | | | | NaOH: Na |
| Received Intact: (Ye | | 1-INV | 00-p | 7 | Itair | | | | | | | | | | | Zn Acetate+ NaOH: Zn |
| | No N/A | | on Factor: | | | 128 | | | | | | | | | | TAT starts the day recevied by the |
| Sample Custody Seals: Yes | No N/A | Total C | ontainers: | 9 | er of | 17. | X | HL | | | | | | | | received by 4:00pm |
| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Numbe | Chlorides | BTEX | F | | | | | | | | Sample Comments |
| 361651 | 5 | 1.37.31 | | 2' | (| X | X | X | | | | | | | | |
| ip(@ 3' | 5 | 1.27.21 | | 3' | 1 | X | X | X | | | | | | | | |
| 6164, | 5 | 1.33.31 | | 4' | 1 | X | X | X | | | | | | | | |
| 8367, | S | 127.21 | | 2' | 1 | X | X | X | | | | | | | | |
| 18063 | 5 | 19721 | | 3' | 1 | X | X | X | | | | | | | | |
| 192041 | 5 | 1.27.21 | | 4' | 1 | X | X | X | | | | | | | | |
| 12 (eg' | 5 | 16.76.1 | | 2' | (| X | X | X | | | | | | | _ | |
| Q3(03' | 5 | 1.37.21 | | 2' | (| X | X | X | | | | | | | | |
| 58304' | 5 | 1.37.21 | | 4' | 1 | X | X | X | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Total 200.7 / 6010 200.8 / | 6020: | | SPCPA | 13DDM To | /ac 11 | AL SH | As F | Ba Be B (| 'd Ca Cr | Co Ci | Fe Ph | Ma Mn N | 10 Ni K S | Se Ag | SiO2 N | la Sr Tl Sn U V Zn |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|-------------|------------------------------|--------------------------|---------------------------------|
| Menther | Clark | 1.27.21 155 | 2 | | |
| | | | 4 | | |
| | | | 6 | | Positord Data 022610 Pay 2010 1 |

Inter-Office Shipment

IOS Number: 77259

Date/Time: 01.28.2021 Created by: Cloe Clifton Please send report to: Jessica Kramer

Lab# From: Carlsbad Delivery Priority: Address: 1089 N Canal Street

Lab# To: **Midland** Air Bill No.: 772762019427 E-Mail: jessica.kramer@eurofinset.com

| Sample Id | Matrix | Client Sample Id | Sample Collection | Method | Method Name | Lab Due | HT Due | PM | Analytes | Sign |
|------------|--------|------------------|-------------------|--------------|-------------------|------------|------------|-----|---------------------|------|
| 686408-001 | S | SP 1 @ 2' | 01.27.2021 00:00 | SW8015MOD_NM | TPH by SW8015 Mod | 02.02.2021 | 02.10.2021 | JKR | PHCC10C28 PHCC28C35 | |
| 686408-002 | S | SP 1 @ 3' | 01.27.2021 00:00 | SW8015MOD_NM | TPH by SW8015 Mod | 02.02.2021 | 02.10.2021 | JKR | PHCC10C28 PHCC28C35 | |
| 686408-003 | S | SP 1 @ 4' | 01.27.2021 00:00 | SW8015MOD_NM | TPH by SW8015 Mod | 02.02.2021 | 02.10.2021 | JKR | PHCC10C28 PHCC28C35 | |
| 686408-004 | S | SP 2 @ 2' | 01.27.2021 00:00 | SW8015MOD_NM | TPH by SW8015 Mod | 02.02.2021 | 02.10.2021 | JKR | PHCC10C28 PHCC28C35 | |
| 686408-005 | S | SP 2 @ 3' | 01.27.2021 00:00 | SW8015MOD_NM | TPH by SW8015 Mod | 02.02.2021 | 02.10.2021 | JKR | PHCC10C28 PHCC28C35 | |
| 686408-006 | S | SP 2 @ 4' | 01.27.2021 00:00 | SW8015MOD_NM | TPH by SW8015 Mod | 02.02.2021 | 02.10.2021 | JKR | PHCC10C28 PHCC28C35 | |
| 686408-007 | S | SP 3 @ 2' | 01.27.2021 00:00 | SW8015MOD_NM | TPH by SW8015 Mod | 02.02.2021 | 02.10.2021 | JKR | PHCC10C28 PHCC28C35 | |
| 686408-008 | S | SP 3 @ 3' | 01.27.2021 00:00 | SW8015MOD_NM | TPH by SW8015 Mod | 02.02.2021 | 02.10.2021 | JKR | PHCC10C28 PHCC28C35 | |
| 686408-009 | S | SP 3 @ 4' | 01.27.2021 00:00 | SW8015MOD_NM | TPH by SW8015 Mod | 02.02.2021 | 02.10.2021 | JKR | PHCC10C28 PHCC28C35 | |

Inter Office Shipment or Sample Comments:

Relinquished By:

Cloe Clifton

Date Relinquished: 01.28.2021

Received By:

Jessica Kramer

Date Received:

01.29.2021

Cooler Temperature: 0.3



Eurofins Xenco, LLC

Inter Office Report- Sample Receipt Checklist

Sent To: Midland IOS #: 77259

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Date: 01.29.2021

Temperature Measuring device used :

Sent By: Cloe Clifton Date Sent: 01.28.2021 02.49 PM

Received By: Jessica Kramer Date Received: 01.29.2021 10.34 AM

| Received By: Jessica Kramer | Date Received: 01.29.2021 | 10.34 AM | |
|--|----------------------------------|---------------------------|----------|
| | Sample Receipt Check | dist | Comments |
| #1 *Temperature of cooler(s)? | | .3 | |
| #2 *Shipping container in good condition | on? | Yes | |
| #3 *Samples received with appropriate | temperature? | Yes | |
| #4 *Custody Seals intact on shipping of | container/ cooler? | Yes | |
| #5 *Custody Seals Signed and dated f | or Containers/coolers | Yes | |
| #6 *IOS present? | | Yes | |
| #7 Any missing/extra samples? | | No | |
| #8 IOS agrees with sample label(s)/ma | atrix? | Yes | |
| #9 Sample matrix/ properties agree with | th IOS? | Yes | |
| #10 Samples in proper container/ bottl | e? | Yes | |
| #11 Samples properly preserved? | | Yes | |
| #12 Sample container(s) intact? | | Yes | |
| #13 Sufficient sample amount for indic | ated test(s)? | Yes | |
| #14 All samples received within hold ti | me? | Yes | |
| * Must be completed for after-hours d | elivery of samples prior to pla | acing in the refrigerator | |
| Corrective Action Taken: | | | |
| | Nonconformance Docu | mentation | |
| Contact: | Contacted by : | Da | ate: |
| Checklist reviewed by: | Jessica Vramer | Data: 04 20 2024 | |

Work Order #: 686408

Analyst:

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Acceptab

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Date/ Time Received: 01.27.2021 03.15.00 PM

Temperature Measuring device used: t_nm_007

| | Sample Receipt Checklist | | Comments |
|---|--------------------------|-----|--------------------------------------|
| #1 *Temperature of cooler(s)? | | | |
| #2 *Shipping container in good condition? | | Yes | |
| #3 *Samples received on ice? | | Yes | |
| #4 *Custody Seals intact on shipping contai | ner/ cooler? | Yes | |
| #5 Custody Seals intact on sample bottles? | | Yes | |
| #6*Custody Seals Signed and dated? | | Yes | |
| #7 *Chain of Custody present? | | Yes | |
| #8 Any missing/extra samples? | | No | |
| #9 Chain of Custody signed when relinquish | ned/ received? | Yes | |
| #10 Chain of Custody agrees with sample la | abels/matrix? | Yes | |
| #11 Container label(s) legible and intact? | | Yes | |
| #12 Samples in proper container/ bottle? | | Yes | Samples received in bulk containers. |
| #13 Samples properly preserved? | | Yes | |
| #14 Sample container(s) intact? | | Yes | |
| #15 Sufficient sample amount for indicated | test(s)? | Yes | |
| #16 All samples received within hold time? | | Yes | |
| #17 Subcontract of sample(s)? | | Yes | TPH sent to Midland. |
| #18 Water VOC samples have zero headsp | ace? | N/A | |

| Must be completed for | r after-hours deliver | v of samples prior to | placing in the refrigerato |
|-----------------------|-----------------------|--------------------------|--------------------------------|
| Must be combleted to | aitei-ilouis delivei | V OI SAIIIDIES DI IOI LO | Diacilia ili tile rell'iderato |

| Checklist completed by: | Cloe aft | Date: 01.28.2021 |
|-------------------------|----------------|------------------|
| | Cloe Clifton | |
| Checklist reviewed by: | Jessica Vramer | Date: 01 28 2021 |

Jessica Kramer

PH Device/Lot#:

Appendix D Photographic Log

Photographic Log

Photo Number:

1

Photo Direction: Birdseye

Photo Description:

Aerial view of facility prior to lightning strike and resulting fire.



Photo Number:

2

Photo Direction:

Northwest

Photo Description:

View of facility following lightning strike and fire.



Photographic Log

Photo Number:

3

Photo Direction: North-Northwest

Photo Description:

View of facility following lightning strike and fire.





4

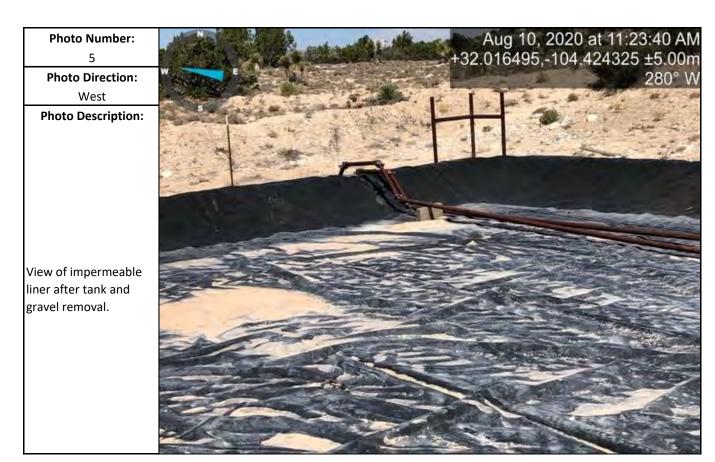
Photo Direction: Southeast

Photo Description:

View of impermeable liner after tank and gravel removal.



Photographic Log

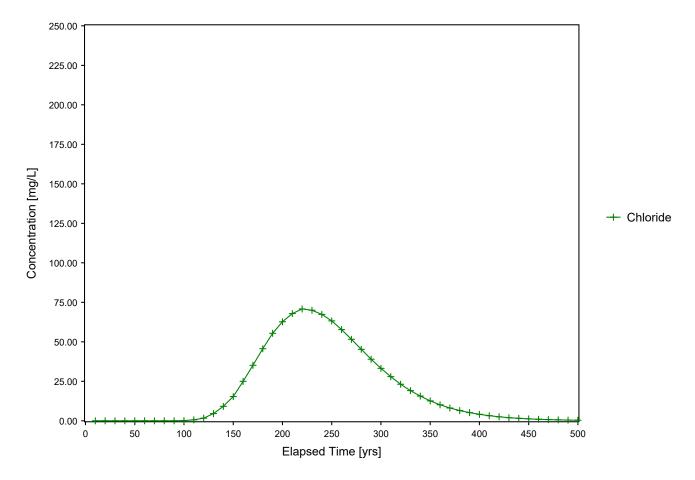




Appendix E Multimedia Exposure Assessment Model (MULTIMED)

Received by OCD: 3/2/2021 12:31:25 PM

Chloride Concentration at the Receptor Well (w/ Liner) COG Operating, LLC Wild Ride Federal #001H



```
MULTIMED V1.01 DATE OF CALCULATIONS: 4-FEB-2021 TIME: 14:44:57
```

U.S. ENVIRONMENTAL PROTECTION AGENCY

EXPOSURE ASSESSMENT

MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

Released to Imaging: 6730/2021

C Operating, LLC

3,

Wald Ride Federal #001H Chemical simulated is Chloride

Option Chosen Saturated and unsaturated zone models

Run was DETERMIN

Infiltration Specified By User: 7.620E-03 m/yr

Run was transient

Well Times: Find Maximium Concentration Reject runs if Y coordinate outside plume Reject runs if Z coordinate outside plume Gaussian source used in saturated zone model

UNSATURATED ZONE FLOW MODEL PARAMETERS (input parameter description and value)

NP - Total number of nodal points 240

NMAT - Number of different porous materials 1

KPROP - Van Genuchten or Brooks and Corey 1

IMSHGN - Spatial discretization option 1

NVFLAYR - Number of layers in flow model 1

OPTIONS CHOSEN

Van Genuchten functional coefficients User defined coordinate system

Layer information

| LAYER NO. | LAYER THICKNESS | MATERIAL PROPERTY |
|-----------|-----------------|-------------------|
| | | |
| 1 | 12.19 | 1 |

VADOSE ZONE MATERIAL VARIABLES

| VARIABLE NAME | UNITS | DISTRIBUTION | PARA | METERS | LI | MITS | |
|----------------------------------|-------|--------------|-------|---------------|---------------|---------------|--|
| | | | MEAN | STD DEV | MIN | MAX | |
| Jaturated hydraulic conductivity | cm/hr | CONSTANT | 4.17 | -999 . | -999 . | -999 . | |
| nsaturated zone porosity | | CONSTANT | 0.130 | -999. | -999. | -999. | |
| ir entry pressure head | m | CONSTANT | 0.700 | -999. | -999. | -999. | |
| epth of the unsaturated zone | m | CONSTANT | 12.2 | 0.000 | 0.000 | 0.000 | |
| pepth of the unsaturated zone | m | CONSTANT | 12.2 | 0.000 | 0.000 | 0.000 | |

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

| VARIABLE NAME | UNITS | DISTRIBUTION | PARAMI | ETERS | T,T | MITS | |
|------------------------------|--------|--------------|-----------|-----------|---------------|---------------|--|
| VIII. | 011110 | DIDIRIDOTION | MEAN | STD DEV | MIN | MAX | |
| Residual water content | | CONSTANT | 0.116 | -999. | -999 . | -999 . | |
| Brook and Corey exponent, EN | | CONSTANT | -999. | -999. | -999. | -999. | |
| ALFA coefficient | 1/cm | CONSTANT | 0.500E-02 | -999. | -999. | -999. | |
| Van Genuchten exponent, ENN | | CONSTANT | 1.09 | -999. | -999. | -999. | |

UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

| NLAY | _ | Number of different layers used | 1 |
|--------|---|--|-----|
| NTSTPS | _ | Number of time values concentration calc | 40 |
| DUMMY | _ | Not presently used | 1 |
| ISOL | _ | Type of scheme used in unsaturated zone | 2 |
| N | _ | Stehfest terms or number of increments | 18 |
| NTEL | _ | Points in Lagrangian interpolation | 3 |
| NGPTS | _ | Number of Gauss points | 104 |
| NIT | _ | Convolution integral segments | 2 |
| IBOUND | _ | Type of boundary condition | 3 |
| ITSGEN | _ | Time values generated or input | 1 |
| TMAX | _ | Max simulation time | 0.0 |
| WTFUN | _ | Weighting factor | 1.2 |

OPTIONS CHOSEN

Convolution integral approach Exponentially decaying continuous source Computer generated times for computing concentrations

DATA FOR LAYER

| VARIABLE NAME | UNITS | DISTRIBUTION | PARAMETERS | | LI | LIMITS | |
|------------------------------------|-------|--------------|------------|---------------|---------------|---------------|--|
| | | | MEAN | STD DEV | MIN | MAX | |
| Thickness of layer | m | CONSTANT | 12.2 | -999 . | -999 . | -999 . | |
| Longitudinal dispersivity of layer | m | DERIVED | -999. | -999. | -999. | -999. | |
| Percent organic matter | | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Bulk density of soil for layer | g/cc | CONSTANT | 1.99 | -999. | -999. | -999. | |
| Biological decay coefficient | 1/yr | CONSTANT | 0.000 | -999. | -999. | -999. | |

CHEMICAL SPECIFIC VARIABLES

| VARIABLE NAME | UNITS | DISTRIBUTION | PARA | METERS | LI | MITS | 5 P |
|---|-----------|--------------|---------------|---------------|---------------|---------------|-----|
| | | | MEAN | STD DEV | MIN | MAX | PM |
| Solid phase decay coefficient | 1/yr | DERIVED | -999 . | -999 . | -999 . | -999 . | |
| Dissolved phase decay coefficient | 1/yr | DERIVED | -999. | -999. | -999. | -999. | |
| Overall chemical decay coefficient | 1/yr | DERIVED | -999. | -999. | -999. | -999. | |
| Acid catalyzed hydrolysis rate | 1/M-yr | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Neutral hydrolysis rate constant | 1/yr | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Base catalyzed hydrolysis rate | 1/M-yr | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Reference temperature | С | CONSTANT | 25.0 | -999. | -999. | -999. | |
| Normalized distribution coefficient | ml/g | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Distribution coefficient | | DERIVED | -999. | -999. | -999. | -999. | |
| Biodegradation coefficient (sat. zone) | 1/yr | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Air diffusion coefficient | cm2/s | CONSTANT | -999. | -999. | -999. | -999. | |
| Reference temperature for air diffusion | С | CONSTANT | -999. | -999. | -999. | -999. | |
| Molecular weight | g/M | CONSTANT | -999. | -999. | -999. | -999. | |
| Mole fraction of solute | | CONSTANT | -999. | -999. | -999. | -999. | |
| Vapor pressure of solute | mm Hg | CONSTANT | -999. | -999. | -999. | -999. | |
| Henry`s law constant a | itm-m^3/M | CONSTANT | -999. | -999. | -999. | -999. | |
| Overall 1st order decay sat. zone | 1/yr | DERIVED | 0.000 | 0.000 | 0.000 | 1.00 | |
| Not currently used | | CONSTANT | 0.000 | 0.000 | 0.000 | 0.000 | |
| Not currently used | | CONSTANT | 0.000 | 0.000 | 0.000 | 0.000 | |

SOURCE SPECIFIC VARIABLES

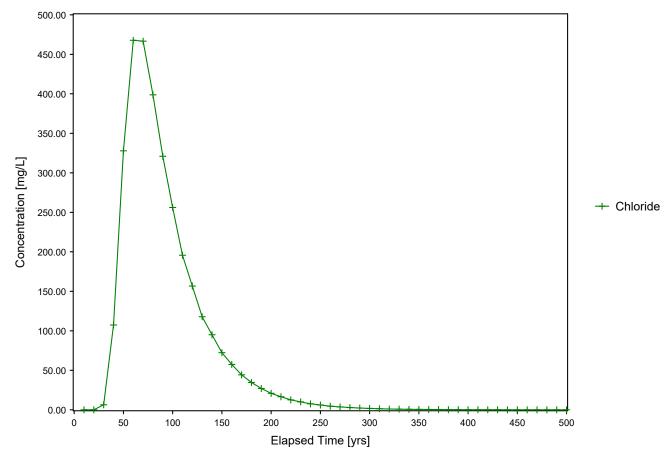
| VARIABLE NAME | UNITS | DISTRIBUTION | PARAMI MEAN | ETERS STD DEV | LI MIN | MITS MAX | |
|-----------------------------------|-------|--------------|----------------|------------------|-----------|-----------|---------|
| | | | MEAN | 310 DEV | 141 T IV | MAA | |
| Infiltration rate | m/yr | CONSTANT | 0.762E-02 | -999. | -999. | -999. | |
| Area of waste disposal unit | m^2 | CONSTANT | 92.9 | -999. | -999. | -999. | |
| Duration of pulse | yr | DERIVED | 0.100E-08 | -999. | -999. | -999. | |
| Spread of contaminant source | m | DERIVED | -999. | -999. | -999. | -999. | + |
| Recharge rate | m/yr | CONSTANT | 0.000 | -999. | -999. | -999. | a_{s} |
| Source decay constant | 1/yr | CONSTANT | 0.250E-01 | 0.000 | 0.000 | 0.000 | e |
| Initial concentration at landfill | mg/l | CONSTANT | 0.145E+04 | -999. | -999. | -999. | 103 |
| Length scale of facility | m | DERIVED | -999. | -999. | -999. | -999. | ق. |
| Width scale of facility | m | DERIVED | -999. | -999. | -999. | -999. | |
| Near field dilution | | DERIVED | 1.00 | 0.000 | 0.000 | 1.00 | 10 |

| VARIABLE NAME | UNITS | DISTRIBUTION | PARAM | ETERS | LI | MITS | d by |
|--------------------------------------|--------|---------------|-----------|---------------|---------------|---------------|----------|
| | | | MEAN | STD DEV | MIN | MAX | 0.0 |
| Particle diameter | | CONSTANT | -999. | -999 . | -999 . | -999 . | <u>.</u> |
| Aquifer porosity | | CONSTANT | 0.300 | -999. | -999. | -999. | 3/ |
| Bulk density | g/cc | CONSTANT | 1.86 | -999. | -999. | -999. | 22 |
| Aquifer thickness | m | CONSTANT | 6.10 | -999. | -999. | -999. | 3/2/202 |
| Source thickness (mixing zone depth) | m | DERIVED | -999. | -999. | -999. | -999. | |
| Conductivity (hydraulic) | m/yr | CONSTANT | 315. | -999. | -999. | -999. | 12: |
| Gradient (hydraulic) | | CONSTANT | 0.300E-02 | -999. | -999. | -999. | 2:31 |
| Groundwater seepage velocity | m/yr | DERIVED | -999. | -999. | -999. | -999. | :25 |
| Retardation coefficient | | DERIVED | -999. | -999. | -999. | -999. | |
| Longitudinal dispersivity | m | FUNCTION OF X | -999. | -999. | -999. | -999. | PM |
| Transverse dispersivity | m | FUNCTION OF X | -999. | -999. | -999. | -999. | |
| Vertical dispersivity | m | FUNCTION OF X | -999. | -999. | -999. | -999. | |
| Temperature of aquifer | С | CONSTANT | 20.0 | -999. | -999. | -999. | |
| рН | | CONSTANT | 7.00 | -999. | -999. | -999. | |
| Organic carbon content (fraction) | | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Well distance from site | m | CONSTANT | 1.00 | -999. | -999. | -999. | |
| Angle off center | degree | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Well vertical distance | m | CONSTANT | 0.000 | -999. | -999. | -999. | |

MAXIMUM WELL CONCENTRATION IS 70.77 AT 220 YEARS

Received by OCD: 3/2/2021 12:31:25 PM

Chloride Concentration at the Receptor Well (No Liner) COG Operating, LLC Wild Ride Federal #001H



```
MULTIMED V1.01 DATE OF CALCULATIONS: 4-FEB-2021 TIME: 11:51:28

U. S. ENVIRONMENTAL PROTECTION AGENCY

EXPOSURE ASSESSMENT
```

MULTIMEDIA MODEL

MULTIMED (Version 1.50, 2005)

Released to Imaging:

Response options
-0/2021 2:65 Operating, LLC

Wad Ride Federal #001H Chemical simulated is Chloride

Option Chosen Saturated and unsaturated zone models Run was DETERMIN

Infiltration Specified By User: 3.048E-02 m/yr

Run was transient

Well Times: Find Maximium Concentration
Reject runs if Y coordinate outside plume
Reject runs if Z coordinate outside plume
Gaussian source used in saturated zone model

UNSATURATED ZONE FLOW MODEL PARAMETERS (input parameter description and value)

NP - Total number of nodal points

NP - Total number of nodal points 240

NMAT - Number of different porous materials 1

KPROP - Van Genuchten or Brooks and Corey 1

IMSHGN - Spatial discretization option 1

NVFLAYR - Number of layers in flow model 1

OPTIONS CHOSEN

Van Genuchten functional coefficients User defined coordinate system

Layer information

| 1 | 12 10 | 1 |
|-----------|-----------------|-------------------|
| | | |
| LAYER NO. | LAYER THICKNESS | MATERIAL PROPERTY |
| | | |

DATA FOR MATERIAL 1

---- --- -----

VADOSE ZONE MATERIAL VARIABLES

| VARIABLE NAME | UNITS | DISTRIBUTION | PARA | METERS | LI | MITS |
|---------------------------------|-------|--------------|-------|---------------|---------------|---------------|
| | | | MEAN | STD DEV | MIN | MAX |
| aturated hydraulic conductivity | cm/hr | CONSTANT | 4.17 | -999 . | -999 . | -999 . |
| nsaturated zone porosity | | CONSTANT | 0.130 | -999. | -999. | -999. |
| ir entry pressure head | m | CONSTANT | 0.700 | -999. | -999. | -999. |
| epth of the unsaturated zone | m | CONSTANT | 12.2 | 0.000 | 0.000 | 0.000 |

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

| VARIABLE NAME | UNITS | DISTRIBUTION | PARAMETERS | | LIMITS | | |
|------------------------------|-------|--------------|------------|---------|---------------|---------------|--|
| | | | MEAN | STD DEV | MIN | MAX | |
| Residual water content | | CONSTANT | 0.116 | -999. | -999 . | -999 . | |
| Brook and Corey exponent, EN | | CONSTANT | -999. | -999. | -999. | -999. | |
| ALFA coefficient | 1/cm | CONSTANT | 0.500E-02 | -999. | -999. | -999. | |
| Van Genuchten exponent, ENN | | CONSTANT | 1.09 | -999. | -999. | -999. | |

UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

| NLAY | - | Number of different layers used | 1 |
|--------|---|--|-----|
| NTSTPS | _ | Number of time values concentration calc | 40 |
| DUMMY | _ | Not presently used | 1 |
| ISOL | - | Type of scheme used in unsaturated zone | 2 |
| N | _ | Stehfest terms or number of increments | 18 |
| NTEL | _ | Points in Lagrangian interpolation | 3 |
| NGPTS | _ | Number of Gauss points | 104 |
| NIT | _ | Convolution integral segments | 2 |
| IBOUND | _ | Type of boundary condition | 3 |
| ITSGEN | _ | Time values generated or input | 1 |
| TMAX | _ | Max simulation time | 0.0 |
| WTFUN | _ | Weighting factor | 1.2 |

OPTIONS CHOSEN

Convolution integral approach Exponentially decaying continuous source Computer generated times for computing concentrations

DATA FOR LAYER 1

| VARIABLE NAME | UNITS | DISTRIBUTION | PARA | METERS | LI | MITS | |
|------------------------------------|-------|--------------|-------|---------------|---------------|---------------|--|
| | | | MEAN | STD DEV | MIN | MAX | |
| Thickness of layer | m | CONSTANT | 12.2 | -999 . | -999 . | -999 . | |
| Longitudinal dispersivity of layer | m | DERIVED | -999. | -999. | -999. | -999. | |
| Percent organic matter | | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Bulk density of soil for layer | g/cc | CONSTANT | 1.99 | -999. | -999. | -999. | |
| Biological decay coefficient | 1/yr | CONSTANT | 0.000 | -999. | -999. | -999. | |

CHEMICAL SPECIFIC VARIABLES

| VARIABLE NAME | UNITS | DISTRIBUTION | PARA | METERS | LI | MITS | 5 P |
|---|----------|--------------|---------------|---------------|---------------|-------|-----|
| | | | MEAN | STD DEV | MIN | MAX | PM |
| Solid phase decay coefficient | 1/yr | DERIVED | -999 . | -999 . | -999 . | -999. | |
| Dissolved phase decay coefficient | 1/yr | DERIVED | -999. | -999. | -999. | -999. | |
| Overall chemical decay coefficient | 1/yr | DERIVED | -999. | -999. | -999. | -999. | |
| Acid catalyzed hydrolysis rate | 1/M-yr | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Neutral hydrolysis rate constant | 1/yr | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Base catalyzed hydrolysis rate | 1/M-yr | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Reference temperature | С | CONSTANT | 25.0 | -999. | -999. | -999. | |
| Normalized distribution coefficient | ml/g | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Distribution coefficient | | DERIVED | -999. | -999. | -999. | -999. | |
| Biodegradation coefficient (sat. zone) | 1/yr | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Air diffusion coefficient | cm2/s | CONSTANT | -999. | -999. | -999. | -999. | |
| Reference temperature for air diffusion | С | CONSTANT | -999. | -999. | -999. | -999. | |
| Molecular weight | g/M | CONSTANT | -999. | -999. | -999. | -999. | |
| Mole fraction of solute | | CONSTANT | -999. | -999. | -999. | -999. | |
| Vapor pressure of solute | mm Hg | CONSTANT | -999. | -999. | -999. | -999. | |
| Henry`s law constant a | tm-m^3/M | CONSTANT | -999. | -999. | -999. | -999. | |
| Overall 1st order decay sat. zone | 1/yr | DERIVED | 0.000 | 0.000 | 0.000 | 1.00 | |
| Not currently used | | CONSTANT | 0.000 | 0.000 | 0.000 | 0.000 | |
| Not currently used | | CONSTANT | 0.000 | 0.000 | 0.000 | 0.000 | |

SOURCE SPECIFIC VARIABLES

| VARIABLE NAME | UNITS | DISTRIBUTION | PARAMI | ETERS | LI | MITS | |
|-----------------------------------|-------|--------------|-----------|---------|---------------|---------------|-----|
| | | | MEAN | STD DEV | MIN | MAX | |
| Infiltration rate | m/yr | CONSTANT | 0.305E-01 | -999. | -999 . | -999 . | |
| Area of waste disposal unit | m^2 | CONSTANT | 92.9 | -999. | -999. | -999. | |
| Duration of pulse | yr | DERIVED | 0.100E-08 | -999. | -999. | -999. | |
| Spread of contaminant source | m | DERIVED | -999. | -999. | -999. | -999. | + |
| Recharge rate | m/yr | CONSTANT | 0.000 | -999. | -999. | -999. | ag |
| Source decay constant | 1/yr | CONSTANT | 0.250E-01 | 0.000 | 0.000 | 0.000 | e |
| Initial concentration at landfill | mg/l | CONSTANT | 0.145E+04 | -999. | -999. | -999. | 102 |
| Length scale of facility | m | DERIVED | -999. | -999. | -999. | -999. | 0. |
| Width scale of facility | m | DERIVED | -999. | -999. | -999. | -999. | |
| Near field dilution | | DERIVED | 1.00 | 0.000 | 0.000 | 1.00 | 10 |

| | AQUIFE | R SPECIFIC VARIABLES | 5 | | | | Receiv |
|--------------------------------------|--------|----------------------|---------------|---------------|---------------|---------------|--------|
| VARIABLE NAME | UNITS | DISTRIBUTION | PARAM | PARAMETERS | | LIMITS | |
| | | | MEAN | STD DEV | MIN | MAX | by Oc |
| Particle diameter | cm | CONSTANT | -999 . | -999 . | -999 . | -999 . | j. |
| Aquifer porosity | | CONSTANT | 0.300 | -999. | -999. | -999. | 3/ |
| Bulk density | g/cc | CONSTANT | 1.86 | -999. | -999. | -999. | 2/2 |
| Aquifer thickness | m | CONSTANT | 6.10 | -999. | -999. | -999. | 92 |
| Source thickness (mixing zone depth) | m | DERIVED | -999. | -999. | -999. | -999. | |
| Conductivity (hydraulic) | m/yr | CONSTANT | 315. | -999. | -999. | -999. | 2:3 |
| Gradient (hydraulic) | | CONSTANT | 0.300E-02 | -999. | -999. | -999. | 31 |
| Groundwater seepage velocity | m/yr | DERIVED | -999. | -999. | -999. | -999. | 2 |
| Retardation coefficient | | DERIVED | -999. | -999. | -999. | -999. | 5 |
| Longitudinal dispersivity | m | FUNCTION OF X | -999. | -999. | -999. | -999. | Z Z |
| Transverse dispersivity | m | FUNCTION OF X | -999. | -999. | -999. | -999. | |
| Vertical dispersivity | m | FUNCTION OF X | -999. | -999. | -999. | -999. | |
| Temperature of aquifer | С | CONSTANT | 20.0 | -999. | -999. | -999. | |
| рН | | CONSTANT | 7.00 | -999. | -999. | -999. | |
| Organic carbon content (fraction) | | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Well distance from site | m | CONSTANT | 1.00 | -999. | -999. | -999. | |
| Angle off center | degree | CONSTANT | 0.000 | -999. | -999. | -999. | |
| Well vertical distance | m | CONSTANT | 0.000 | -999. | -999. | -999. | |

MAXIMUM WELL CONCENTRATION IS 481.9 AT 65.6 YEARS

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

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

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

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

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

CONDITIONS

Action 19473

CONDITIONS

| Operator: | OGRID: |
|--------------------|---|
| COG OPERATING LLC | 229137 |
| 600 W Illinois Ave | Action Number: |
| Midland, TX 79701 | 19473 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| ceads | In the event another release occurs within this containment area and deficiencies in the liner are observed, the impacted areas will be remediated to meet Table I Closure Criteria. | 6/30/2021 |