TETRA TECH

November 8, 2023

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Closure Report**
**ConocoPhillips (Heritage COG Production, LLC)**
**Windward Federal Com #001H Flowline Release**
**Unit Letter D, Section 30, Township 24 South, Range 32 East**
**DOR: 6/15/2023**
**Lea County, New Mexico**
**Incident ID: NAPP2317143514**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to assess a release that occurred from a flowline associated with the Windward Federal #001H (API# 30-025-41414) well. The release footprint is located within Public Land Survey System (PLSS) Unit Letter D, Section 30, Township 24 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.194444°, -103.720278° as shown on Figures 1 and 2.

## BACKGROUND

According to the C-141 Initial Report, the release occurred on June 15, 2023, and was caused by a hole in a flowline due to corrosion. Approximately 0.117 barrels (bbls) of oil and 0.3351 bbls of produced water were reported released into a pasture area adjacent to a lease road, and no fluid was recovered. The provided spill calculator indicates a release area of approximately 30 square feet. The approximate release extent presented in Figure 3 was identified based on information provided by ConocoPhillips representatives and a review of photographs taken at the release area. The New Mexico Oil Conservation Division (NMOCD) approved the initial C-141 on June 21, 2023, and assigned the release the Incident ID NAPP2317143514. The C-141 is included as Appendix A.

On behalf of ConocoPhillips, Tetra Tech requested a 90-day extension on September 13, 2023, to complete assessment, remediation, and the associated reporting for the release site. The extension request was approved by Nelson Velez on September 15, 2023, and the remediation due date was updated to December 12, 2023, within the incident page. A copy of the regulatory correspondence is included in Appendix B.

## LAND OWNERSHIP

According to the NMOCD Oil and Gas Map, the Site is located on land owned by the Bureau of Land Management (BLM). Tetra Tech requested BLM clearance to remediate via email on October 10, 2023. The BLM cleared the Site for remediation activities via email, following a desktop review conducted by Shelly Taylor of the BLM. The regulatory correspondence is included in Appendix B.

Tetra Tech
901 West Wall St., Suite 100, Midland, TX 79701
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

## SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, stream bodies, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineer (NMOSE) reporting system, there is one well within a ½-mile (800-meter) radius of the Site, located approximately 0.46 miles (736 meters) east of the release point. This well has a total depth of 120 feet below ground surface (bgs) with no groundwater encountered. The nearest NMOSE-registered well with depth-to-water data is located (2,068 meters) from the Site and has a depth to water of 135 feet bgs. The site characterization data is included in Appendix C.

## REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

| Constituent | Site RRALs |
|---|---|
| **Chloride** | 20,000 mg/kg |
| **TPH (GRO+DRO+ORO)** | 2,500 mg/kg |
| **TPH (GRO+DRO)** | 1,000 mg/kg |
| **BTEX** | 50 mg/kg |
| **Benzene** | 10 mg/kg |

Additionally, in accordance with the NMOCD guidance Procedures for Implementation of the Spill Rule (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

| Constituent | Reclamation Requirements |
|---|---|
| **Chloride** | 600 mg/kg |
| **TPH (GRO+DRO+ORO)** | 100 mg/kg |

## SITE ASSESSMENT

On July 12, 2023, Tetra Tech was onsite to conduct assessment activities on behalf of ConocoPhillips. One (1) hand auger boring HA-1 was installed to 6 feet bgs in the center of the release extent. Four (4) hand auger borings (HA-2 through HA-5) were installed along the perimeter of the release extent to 1-foot bgs. Photographic documentation of the release area is presented in Appendix D.

A total of five (5) soil samples were sent to Cardinal Laboratories in Hobbs, New Mexico (Cardinal) to be analyzed for chloride via Standard Method 4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical reports and chain-of-custody documentation are included in Appendix E.

On September 12, 2023, Tetra Tech remobilized to the site to install one additional boring (BH-1) using an air rotary drill rig within the release footprint in the pasture to 15 feet bgs to complete vertical delineation of

the release extent. A total of fifteen (15) soil samples were sent to Cardinal to be analyzed for chloride via Standard Method 4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

Analytical results from the 2023 assessment activities are summarized in Table 1. Analytical results associated with BH-1 from the surface to 12 feet bgs exceeded the Site RRAL for TPH. Vertical and horizontal delineation was completed as a result of the additional sampling. The sampling locations are presented in Figure 3.

## REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

Tetra Tech personnel mobilized to the site to conduct remedial activities and confirmation sampling on October 17 through October 19, 2023. Based on the collected analytical results, Tetra Tech excavated the release extent to a total depth of 12 feet bgs to remove impacted soils. Prior to confirmation sampling, in accordance with Subsection D of 19.15.29.12 NMAC, the NMOCD district office was notified via email on October 10, 2023. As mentioned, the BLM was contacted for clearance prior to remedial action. Copies of the regulatory correspondence are included in Appendix B.

All of the excavated material was transported offsite for proper disposal. Approximately seventy (70) cubic yards of material were transported to the R360 Halfway Facility in Hobbs, New Mexico. Copies of the waste manifest documents are included in Appendix F.

A total of one (1) floor sample location and four (4) sidewall sample locations were used during the remedial activities. Confirmation sidewall sample locations were labeled with “SW”-#, and confirmation floor sample locations were labeled with “FS”- #. Analytical results for all confirmation soil samples (floor and sidewall) were below the applicable Site RRALs and reclamation limits for chloride, BTEX, and TPH. The results of the 2023 confirmation sampling events are summarized in Table 2. Laboratory analytical data is included in Appendix E.

Once confirmation sampling activities were completed, the excavated areas were backfilled with clean material to surface grade. Photographs from the excavated areas prior to backfill are provided in Appendix D. The backfilled areas were seeded with the BLM seed mixture for LPC Sand/Shinnery Sites to aid in revegetation. Remediated areas, depths and confirmation sample locations are shown in Figure 4.

## CONCLUSION

Based on the results of the remedial activities and confirmation sampling, ConocoPhillips respectfully requests closure of the incident. The current release footprint is fully remediated. Analytical results associated with the sampling events were below applicable Site RRALs following all remedial response actions; therefore, remediation of the release footprint is complete. The impacted surface area was remediated to meet the standards of Table I of 19.15.29.12 NMAC.

This final closure report details the release characterization, remediation activities and the results of the assessment sampling. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the soil assessment activities for the Site, please call me at (512) 739-7874.

Sincerely,

**Tetra Tech, Inc.**

Samantha Abbott, P.G.
Project Manager

Christian M. Llull, P.G.
Program Manager

cc:
Mr. Jacob Laird, GPBU – ConocoPhillips

## LIST OF ATTACHMENTS

**Figures:**

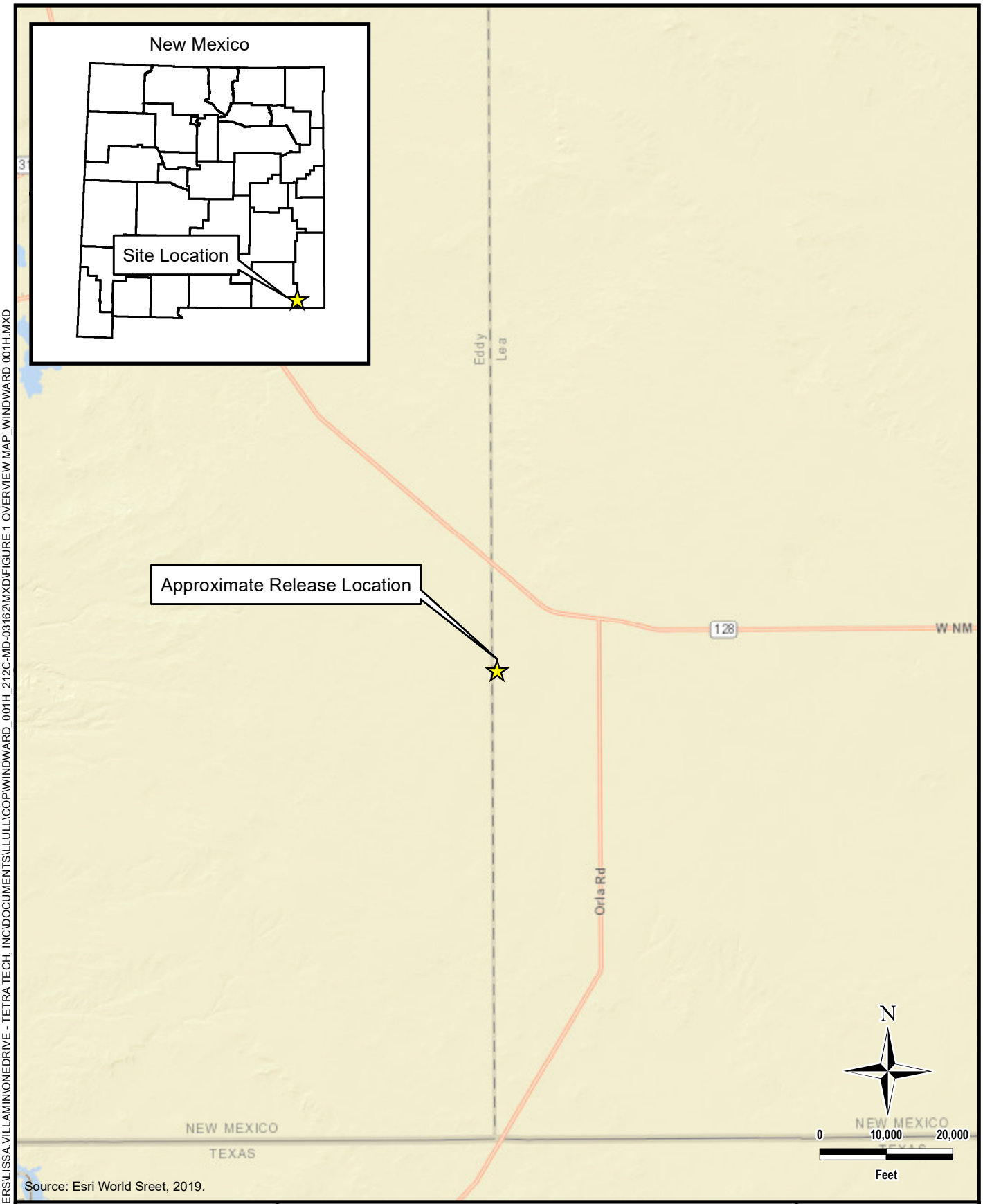


**Tables:**



**Appendices:**

# FIGURES




Source: Esri World Sreet, 2019.

DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LLULL\COP\WINDWARD_001H_212C-MD-03162\MXD\FIGURE 1 OVERVIEW MAP_WINDWARD 001H.MXD

TETRA TECH
www.tetratech.com
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Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

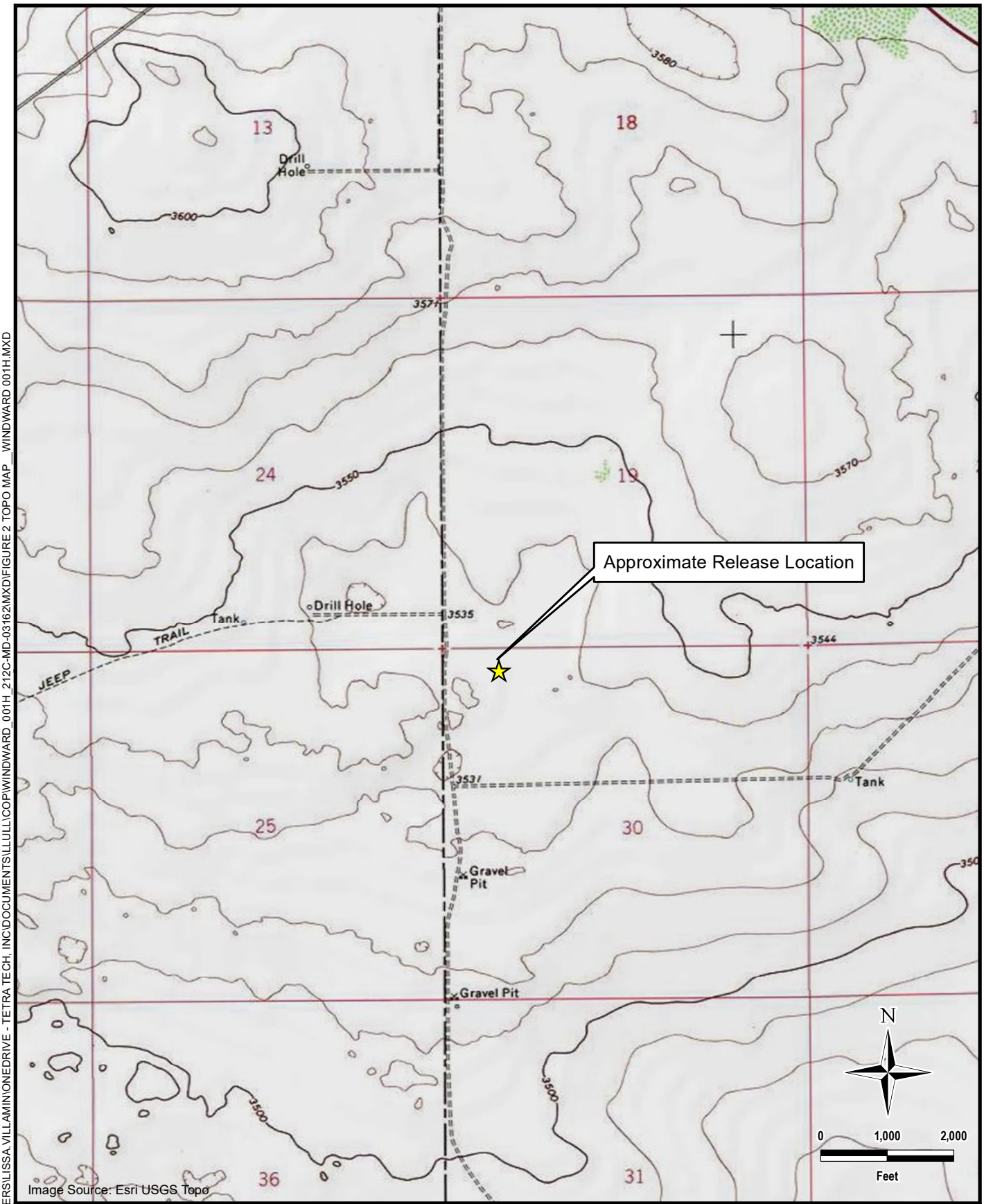
**CONOCOPHILLIPS**

NAPP2317143514
LEA COUNTY, NEW MEXICO
(32.194444°, -103.720278°)

**WINDWARD FEDERAL COM 001H FLOWLINE RELEASE**
**OVERVIEW MAP**

| | |
|---|---|
| PROJECT NO.: | 212C-MD-03162 |
| DATE: | NOVEMBER 07, 2023 |
| DESIGNED BY: | LMV |

Figure No.
**1**




DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LLULL\COP\WINDWARD_001H_212C-MD-03162\MXD\FIGURE 2 TOPO MAP__WINDWARD 001H.MXD

TETRA TECH
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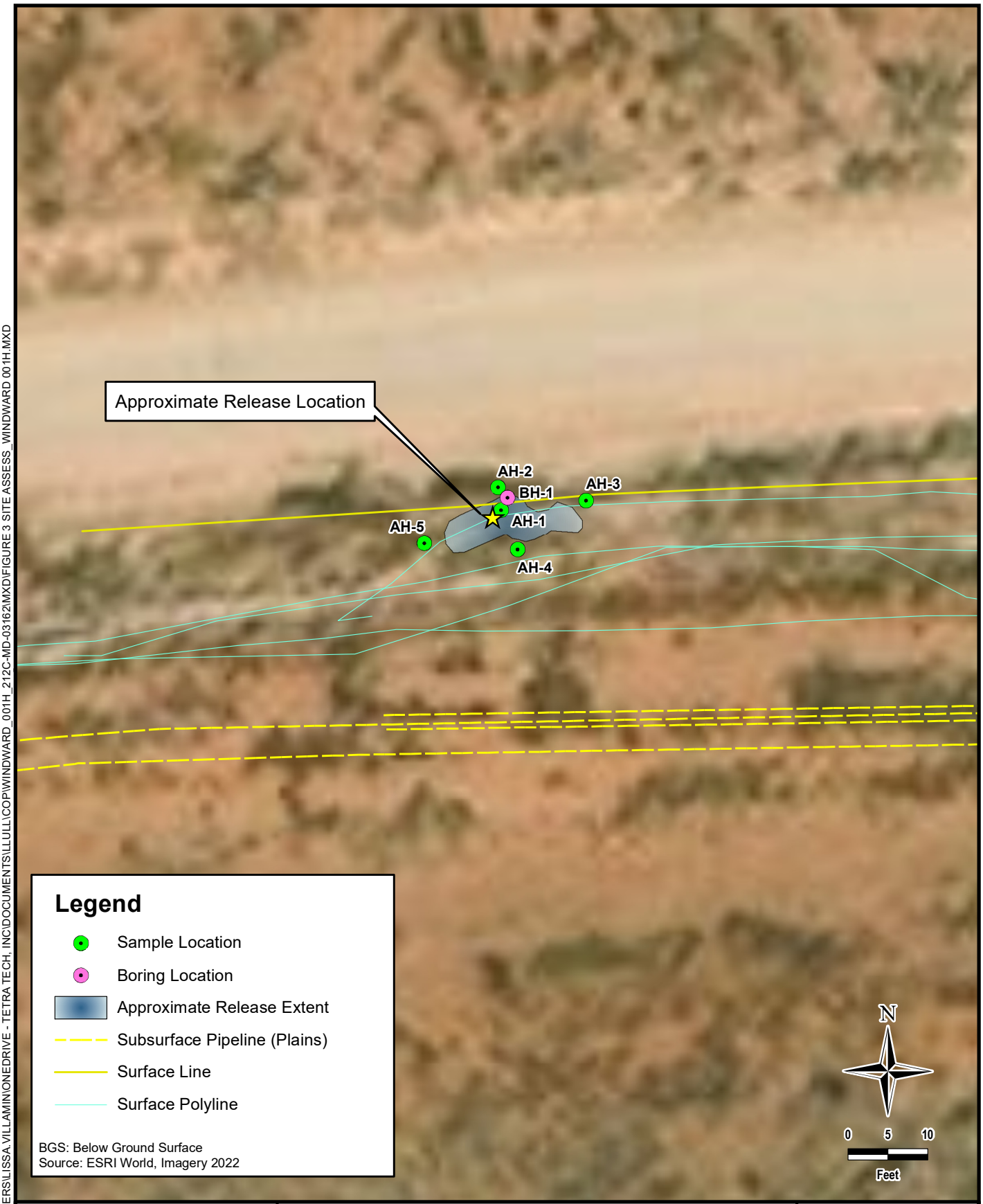
CONOCOPHILLIPS

NAPP2317143514
LEA COUNTY, NEW MEXICO
(32.194444°, -103.720278°)

**WINDWARD FEDERAL COM 001H FLOWLINE RELEASE**
**TOPOGRAPHIC MAP**

| | |
|---|---|
| PROJECT NO.: | 212C-MD-03162 |
| DATE: | NOVEMBER 07, 2023 |
| DESIGNED BY: | LMV |

Figure No.
**2**




DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LLULL\COP\WINDWARD_001H_212C-MD-03162\MXD\FIGURE 3 SITE ASSESS_WINDWARD 001H.MXD

TETRA TECH
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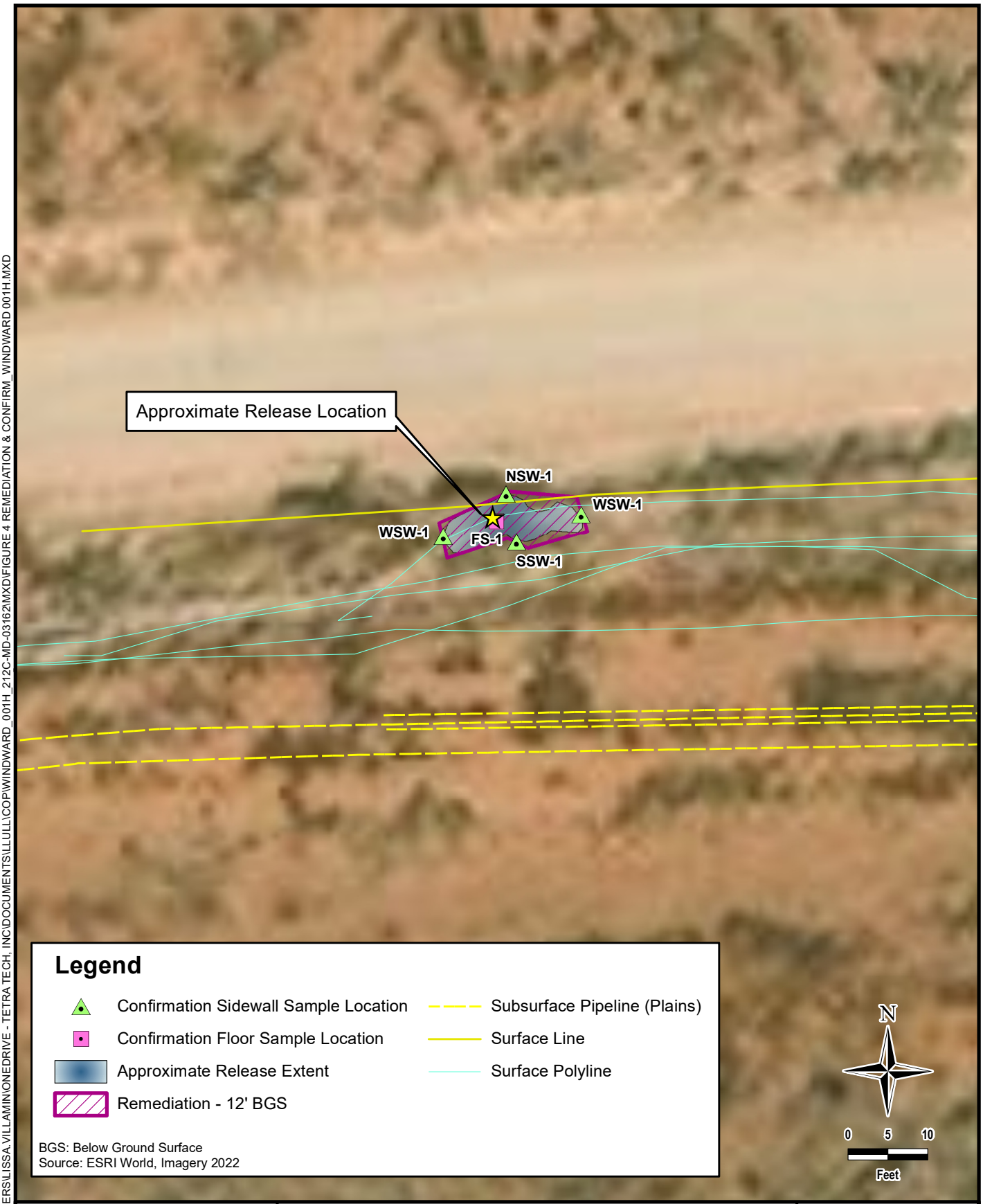
CONOCOPHILLIPS

NAPP2317143514
LEA COUNTY, NEW MEXICO
(32.194444°, -103.720278°)

**WINDWARD FEDERAL COM 001H FLOWLINE RELEASE SITE ASSESSMENT**

| | |
|---|---|
| PROJECT NO.: | 212C-MD-03162 |
| DATE: | NOVEMBER 07, 2023 |
| DESIGNED BY: | LMV |

Figure No.
**3**




DOCUMENT PATH: C:\USERS\LISSA.VILLAMIN\ONEDRIVE - TETRA TECH, INC\DOCUMENTS\LLULL\COP\WINDWARD_001H_212C-MD-03162\MXD\FIGURE 4 REMEDIATION & CONFIRM_WINDWARD 001H.MXD

TETRA TECH
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CONOCOPHILLIPS

NAPP2317143514
LEA COUNTY, NEW MEXICO
(32.194444°, -103.720278°)

**WINDWARD FEDERAL COM 001H FLOWLINE RELEASE**
**REMEDIATION EXTENT AND CONFIRMATION SAMPLING LOCATIONS**

| | |
|---|---|
| PROJECT NO.: | 212C-MD-03162 |
| DATE: | NOVEMBER 07, 2023 |
| DESIGNED BY: | LMV |

Figure No.
**4**

# TABLES

# TABLE 1
# SUMMARY OF ANALYTICAL RESULTS
# 2023 SOIL ASSESSMENT- nAPP2317143514
# CONOCOPHILLIPS
# WINDWARD FEDERAL COM # 001H
# LEA COUNTY, NM

| 19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (>100 ft): | | | | | Chlorides[1] | | BTEX[2] | | | | | | | | | | TPH[3] | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | < 20,000 mg/kg | | < 10 mg/kg | | | | | | | | < 50 mg/kg | | GRO | | DRO | | EXT DRO | | < 2,500 mg/kg |
| Sample ID | Sample Date | Sample Depth Interval | Field Screening Results | | Chloride | | Benzene | | Toluene | | Ethylbenzene | | Total Xylenes | | Total BTEX | | $C_6$ - $C_{10}$ | | > $C_{10}$ - $C_{28}$ | | > $C_{28}$ - $C_{36}$ | | Total TPH (GRO+DRO+EXT DRO) |
| | | | Chlorides | PID | | | | | | | | | | | | | | | | | | | |
| | | ft. bgs | ppm | | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg |
| AH-1 | 7/12/2023 | 0.5-1 | | | <16.0 | | <0.050 | | 0.26 | | <0.050 | GC-NC | 7.47 | GC-NC1 | 7.73 | GC-NC1 | 429 | | 13,600 | | 2,490 | | ***16,519*** |
| | | 3-4 | | | <16.0 | | <0.200 | | 1.42 | | <0.200 | | 41.6 | GC-NC1 | 43.0 | GC-NC1 | 1,060 | | 5,440 | | 796 | | ***7,296*** |
| | | 5-6 | | | ***3,240*** | | 7.94 | | 77.2 | | 23.5 | | 149 | | 258 | | 4,620 | | 8,920 | | 1,540 | | ***15,080*** |
| AH-2 | 7/12/2023 | 0-1 | 250 | | 160 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | 25.5 | | <10.0 | | 25.5 |
| AH-3 | 7/12/2023 | 0-1 | 69.3 | | 32.0 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | <10.0 | | <10.0 | | - |
| AH-4 | 7/12/2023 | 0-1 | 151 | | 80.0 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | <10.0 | | <10.0 | | - |
| AH-5 | 7/12/2023 | 0-1 | 89.7 | | 48.0 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | 14.3 | | <10.0 | | 14.3 |
| BH-1 | 9/12/2023 | 0-1 | | | 96.0 | | <0.050 | | 0.248 | | 0.354 | | 6.17 | | 6.77 | | 309 | | 4,920 | | 830 | | ***6,059*** |
| | | 2-3 | | | 528 | | <0.200 | | 3.52 | | 2.95 | | 25.3 | | 31.7 | | 568 | | 5,440 | | 878 | | ***6,886*** |
| | | 4-5 | | | 832 | | 0.647 | | 17.0 | | 6.68 | | 46.3 | | ***70.6*** | | 703 | | 5,100 | | 827 | | ***6,630*** |
| | | 6-7 | | | 336 | | <0.200 | | 3.37 | | 2.77 | | 17.3 | | 23.5 | | 621 | | 6,330 | | 996 | | ***7,947*** |
| | | 8-9 | | | 240 | | <0.500 | | 4.56 | | 3.09 | | 20.8 | | 28.5 | | 994 | | 9,780 | | 1,530 | | ***12,304*** |
| | | 9-10 | | | 256 | | 1.32 | | 17.1 | | 5.84 | | 38.7 | | 62.9 | | 1,030 | | 7,540 | | 1,210 | | ***9,780*** |
| | | 12-13 | | | 80.0 | | <0.050 | | 0.621 | | 0.511 | | 3.86 | | 4.99 | | 108 | | 1,890 | | 339 | | 2,337 |
| | | 14-15 | | | 112 | | <0.050 | | <0.050 | | <0.050 | | 0.200 | | <0.300 | | <10.0 | | 54.0 | | 15.0 | | 69.0 |

NOTES:

| | |
|---|---|
| ft. | Feet |
| bgs | Below ground surface |
| mg/kg | Milligrams per kilogram |
| TPH | Total Petroleum Hydrocarbons |
| GRO | Gasoline range organics |
| DRO | Diesel range organics |
| 1 | Method SM4500Cl-B |
| 2 | Method 8021B |
| 3 | Method 8015M |

***Bold and italicized values indicate exceedance of proposed RRALs and/or Reclamation Requirements.***

Shaded rows indicate intervals removed during the remedial activities.

QUALIFIERS:

# TABLE 2
# SUMMARY OF ANALYTICAL RESULTS
# SOIL REMEDIATION - nAPP2317143514
# CONOCOPHILLIPS
# WINDWARD FEDERAL COM # 001H
# LEA COUNTY, NM

| Sample ID | Sample Date | Sample Depth | Field Screening Results | | Chloride[1] | | BTEX[2] | | | | | | | | | | TPH[3] | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Chloride | PID | | | Benzene | | Toluene | | Ethylbenzene | | Total Xylenes | | Total BTEX | | GRO $C_6$ - $C_{10}$ | | DRO > $C_{10}$ - $C_{28}$ | | EXT DRO > $C_{28}$ - $C_{36}$ | | Total TPH (GRO+DRO+EXT DRO) |
| | | ft. bgs | ppm | | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg |
| NSW-1 | 10/17/2023 | - | 52.5 | | 16 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | QR-03 | <10.0 | QR-03 | <10.0 | | - |
| SSW-1 | 10/17/2023 | - | 52.9 | | 16 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | <10.0 | | <10.0 | | - |
| ESW-1 | 10/17/2023 | - | 88.2 | | <16.0 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | <10.0 | | <10.0 | | - |
| WSW-1 | 10/17/2023 | - | 84.9 | | <16.0 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | <10.0 | | <10.0 | | - |
| FS-1 | 10/17/2023 | 12 | 88.2 | | 96 | | <0.050 | | <0.050 | | <0.050 | | <0.150 | | <0.300 | | <10.0 | | <10.0 | | <10.0 | | - |

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

***Bold and italicized values indicate exceedance of proposed Remediation RRALs and/or Reclamation Requirements.***

QUALIFIERS:

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

# APPENDIX A
# C-141 Forms

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

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

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party | OGRID |
| Contact Name | Contact Telephone |
| Contact email | Incident # *(assigned by OCD)* |
| Contact mailing address | |

## Location of Release Source

Latitude _____ Longitude _____
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name | Site Type |
| Date Release Discovered | API# *(if applicable)* |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| | | | | |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

## Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|---|---|---|
| ☐ Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☐ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |
| Cause of Release | | |

State of New Mexico
Oil Conservation Division

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

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☐ Yes ☐ No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |

## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name _____ Title: _____

Signature:  Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: Shelly Wells Date: 6/21/2023

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Known Area (dropdown): | Yes | Mapped Area (sq. ft.) | Average Depth (in.) | Percentage of Oil if Spilled Fluid is a Mixture (%.) | Total Estimated Volume of Spill (bbl.) | Total Estimated Volume of Spilled Oil (bbl.) | Total Estimated Volume of Spilled Liquid other than Oil (bbl.) |
| | | 30 | 1 | 25% | 0.4469 | 0.1117 | 0.3351 |

**District I**
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
**District II**
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 230719

## CONDITIONS

| | |
|---|---|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137 |
| | Action Number:<br>230719 |
| | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| scwells | None | 6/21/2023 |

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

# Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

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

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist**: ***Each of the following items must be included in the report.***

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

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

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

Printed Name: _____ Title: _____

Signature: Jacob Laird Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: Shelly Wells Date: 11/27/2023

State of New Mexico
Oil Conservation Division

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

# Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: Jacob Laird Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: Shelly Wells Date: 11/27/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Scott Rodgers Date: 01/12/2024

Printed Name: Scott Rodgers Title: Environmental Specialist Adv.

# APPENDIX B
# Regulatory Correspondence

**From:** Velez, Nelson, EMNRD
**To:** Abbott, Sam
**Cc:** Jacob.Laird@conocophillips.com; Llull, Christian; Chavira, Lisbeth; Bratcher, Michael, EMNRD
**Subject:** Re: [EXTERNAL] Extension Request - nAPP2317143514 (Windward Federal 1H )
**Date:** Friday, September 15, 2023 2:34:20 PM
**Attachments:** image001.png
image002.png
image003.png
image004.png
image005.png
Outlook-wtfpj2i0.png



Good afternoon Sam,

Your 90-day time extension request is approved. Remediation Due date has been updated to December 12, 2023 within the incident page.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

**Nelson Velez** • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
**Sent:** Wednesday, September 13, 2023 4:13 PM
**To:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
**Subject:** FW: [EXTERNAL] Extension Request - nAPP2317143514 (Windward Federal 1H )

**From:** Abbott, Sam <Sam.Abbott@tetratech.com>
**Sent:** Wednesday, September 13, 2023 3:18 PM
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
**Cc:** Laird, Jacob <Jacob.Laird@conocophillips.com>; Llull, Christian <Christian.Llull@tetratech.com>; Chavira, Lisbeth <LISBETH.CHAVIRA@tetratech.com>
**Subject:** [EXTERNAL] Extension Request - nAPP2317143514 (Windward Federal 1H )



To Whom It May Concern,

On behalf of ConocoPhillips, Tetra Tech is requesting an additional 90-day extension (until December 12, 2023) to complete additional assessment activities and associated reporting for the Windward Federal 1H Flowline Release site (**nAPP2317143514**). The release occurred on June 15, 2023, and the initial C-141 Report Form was received by NMOCD on December 12, 2023. ConocoPhillips immediately commenced pursuing a 90-day (September 13, 2023) release characterization and closure per 19.15.29.11(A) NMAC.

Tetra Tech was onsite on July 12, 2023 to sample and delineate the release on behalf of ConocoPhillips. Horizontal delineation was achieved at this time, but Tetra Tech was not able to complete vertical delineation with a hand auger. After experiencing scheduling delays, Tetra Tech returned to the site with an air rotary drill rig to complete vertical delineation of the release on September 12, 2023. Tetra Tech and ConocoPhillips need additional time to complete evaluation of the additional assessment data, any required remedial actions, and subsequent reporting. A complete report will be submitted to the OCD within the requested timeframe.

Please let me know if you have any questions or concerns.

Thank you in advance,
Sam

**Samantha Abbott, PG** | Project Manager
Direct Mobile **+1 (512) 739-7874** | Business **+1 (512) 338-1667** | Sam.Abbott@tetratech.com

**Tetra Tech, Inc.** | *Leading with Science*® | OGA
8911 N Capital of Texas Hwy #2310 | Austin, TX 78759 | tetratech.com

**From:** Taylor, Shelly J
**To:** Llull, Christian
**Cc:** Chavira, Lisbeth; Abbott, Sam
**Subject:** RE: [EXTERNAL] Request for Approval - Remediation (Windward Federal Com 001H Flowline Release)
**Date:** Thursday, October 12, 2023 4:04:38 PM
**Attachments:** image007.png
image008.jpg
image009.png
image010.png
image011.png
image012.png
image013.png



You are cleared to proceed with remedial activities.

Sincerely,

*Shelly J Taylor*
Environmental Protection Specialist
Realty - Compliance

Bureau of Land Management/Carlsbad Field Office
620 E. Greene St
Carlsbad, NM 88220
Direct 575.234.5706
Mobile 575.499.6831
sjtaylor@blm.gov

Spill/Release email: **BLM_NM_CFO_REALTY_SPILL@BLM.GOV**

---

**From:** Llull, Christian <Christian.Llull@tetratech.com>
**Sent:** Tuesday, October 10, 2023 9:07 AM
**To:** Taylor, Shelly J <sjtaylor@blm.gov>
**Cc:** Chavira, Lisbeth <LISBETH.CHAVIRA@tetratech.com>; Abbott, Sam <Sam.Abbott@tetratech.com>
**Subject:** [EXTERNAL] Request for Approval - Remediation (Windward Federal Com 001H Flowline Release)



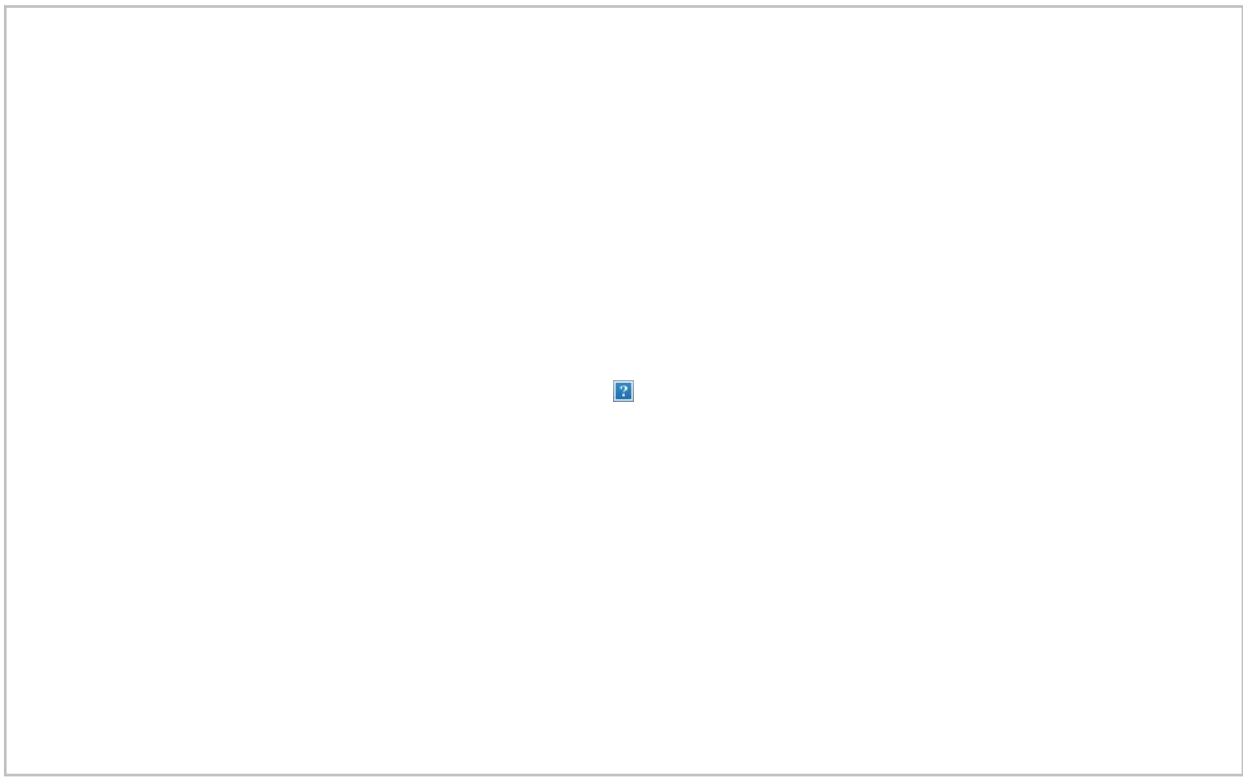
Hey Shelly,

Good morning! Another small remediation for ConocoPhillips.

Tetra Tech is assisting with the remedial action associated with a previously reported unplanned release that occurred on June 15, 2023.
The work is expected to take 2 days.
The **Windward Federal Com 001H Flowline Release** is an approximate 100 square foot area in pasture, just off a lease road, southwest of the Windward and King Tut batteries.

In order to complete the remediation and the submittal process we are requesting verbal approval to proceed with cleanup at the location listed below. KMZ file attached and screengrab below.
Please let me know if you require any other permitting or compliance items in addition to this email approval before we begin work.

**Name of Release: Windward Federal Com 001H Flowline Release**
**Unit Letter D, Section 30, Township 24 South, Range 32 East**
**Lea County, New Mexico**
**Incident Identification (ID) nAPP2317143514**
**Approximate Release Location: 32.194444°, -103.720278°**
**Date Release Discovered: June 15, 2023**
**Volume Released: Approximately 0.117 barrels (bbls) of crude oil and 0.3351 bbls of produced water were released.**
**Release in Pasture**



We plan to start work a week from today.
Please let me know at your earliest convenience if we are clear to remediate?

Thank you in advance.

**Christian Llull, P.G.** | Program Manager
Mobile **+1 (512) 565-0190** | christian.llull@tetratech.com

**Tetra Tech** | *Leading with Science®* | OGA
8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetratech.com



**From:** Wells, Shelly, EMNRD
**To:** Chavira, Lisbeth; Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD
**Cc:** Abbott, Sam
**Subject:** RE: [EXTERNAL] Incident ID: nAPP2317143514 - Confirmation Sampling
**Date:** Tuesday, October 10, 2023 4:23:56 PM
**Attachments:** image001.png
image002.png
image003.png
image004.png
image005.png



Hi Lisbeth,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

---

**From:** Chavira, Lisbeth <LISBETH.CHAVIRA@tetratech.com>
**Sent:** Tuesday, October 10, 2023 2:57 PM
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
**Cc:** Abbott, Sam <Sam.Abbott@tetratech.com>
**Subject:** [EXTERNAL] Incident ID: nAPP2317143514 - Confirmation Sampling



Incident ID (n#) **nAPP2317143514** (Windward Federal Com 001H Flowline Release)

To whom it may concern,

In accordance with Subsection D of 19.15.29.12 NMAC, the responsible party must verbally notify the appropriate division district office prior to conducting confirmation sampling.

Remediation activities of the release will begin Tuesday, October 17, 2023.

Thus, on behalf of ConocoPhillips for the above referenced incident, Tetra Tech is duly providing this communication which serves as notification that final confirmation sampling will be conducted at this site **Wednesday**, **October 18, 2023.**

**NOTE:** If you have any questions regarding this sampling schedule, please contact me.

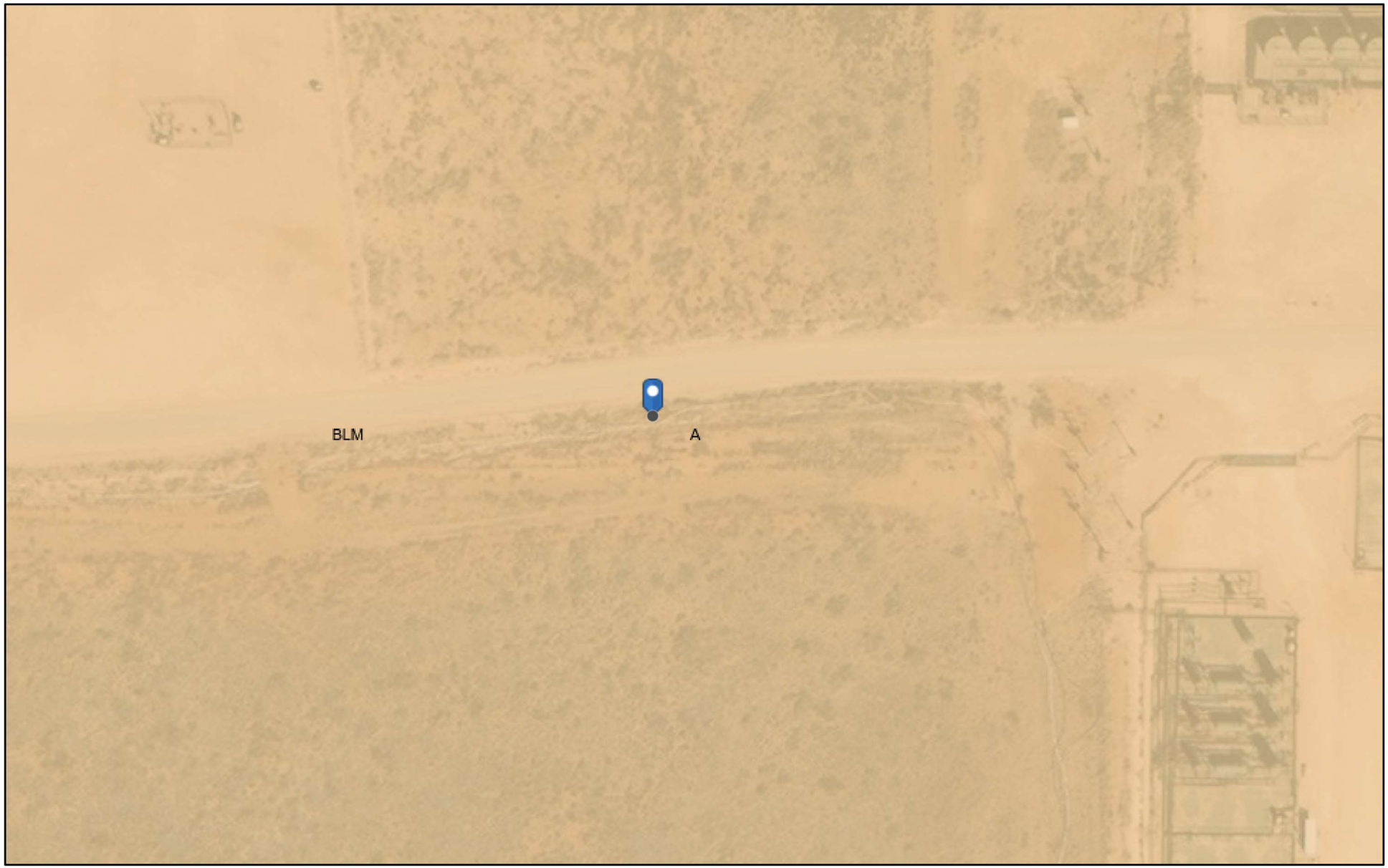
Thank you,

**Lisbeth Chavira** | Staff Geoscientist
Direct Mobile **+1 (512) 596-8201** | Lisbeth.chavira@tetratech.com

**Tetra Tech** | *Leading with Science®* | OGA
8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetratech.com

# APPENDIX C
# Site Characterization Data

# OCD Land Ownership




10/26/2023, 2:18:30 PM

1:1,128

0 0.01 0.01 0.03 mi

0 0.01 0.03 0.05 km

U.S. BLM, Maxar, Microsoft, Esri, HERE, Garmin, iPC

Mineral Ownership

A-All minerals are owned by U.S.

Land Ownership

BLM

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

# National Flood Hazard Layer FIRMette

FEMA

103°43'32"W 32°11'56"N


0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°42'55"W 32°11'25"N

Basemap Imagery Source: USGS National Map 2023

## Legend

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

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

**OTHER AREAS OF FLOOD HAZARD**
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

**OTHER AREAS**
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

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

**OTHER FEATURES**
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

**MAP PANELS**
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/26/2023 at 3:15 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

# OCD Karst Potential


7/31/2023, 4:56:45 PM

Karst Occurrence Potential

Low

1:4,514

0 0.05 0.1 0.19 mi

0 0.07 0.15 0.3 km

BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, iPC, Maxar



New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

# OCD Waterbodies

7/31/2023, 4:58:05 PM

1:9,028

0 0.07 0.15 0.3 mi

0 0.15 0.3 0.6 km

Esri, HERE, Garmin, iPC, Maxar, NM OSE



New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

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

| POD Number | POD Sub-basin Code | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C 04665 | CUB | LE | 1 | 1 | 2 | 30 | 24S | 32E | 621350 | 3562798 | 736 | 120 | | |

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

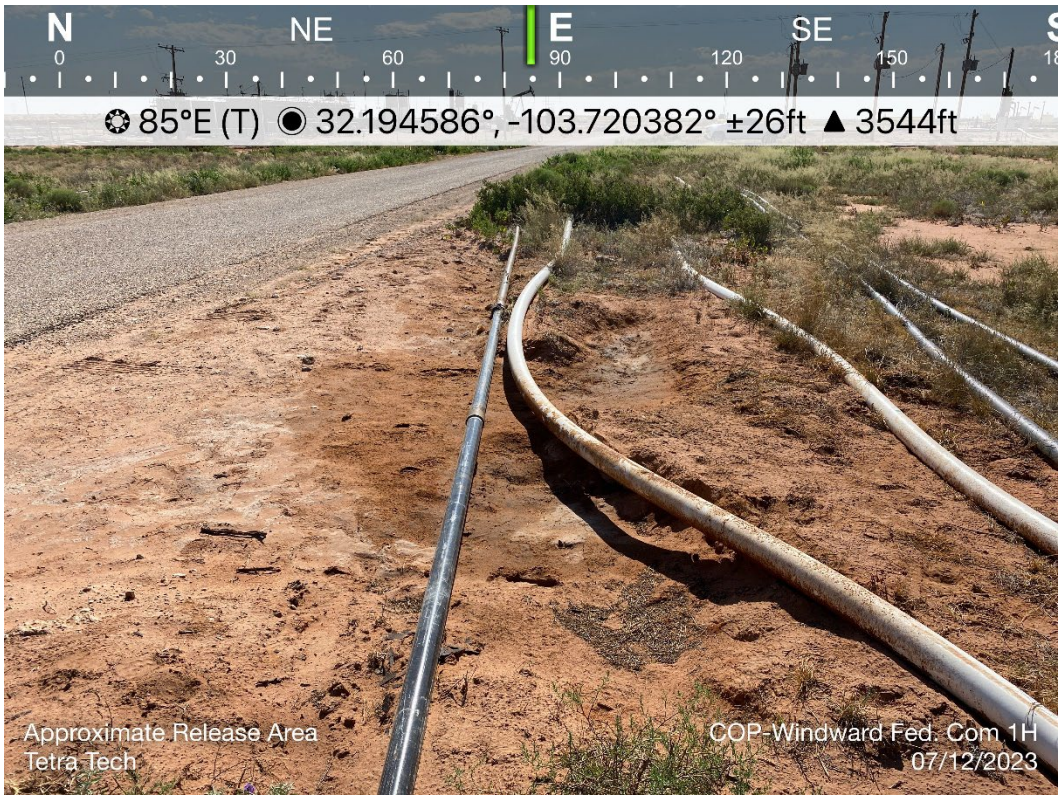
**Record Count:** 1

**UTMNAD83 Radius Search (in meters):**

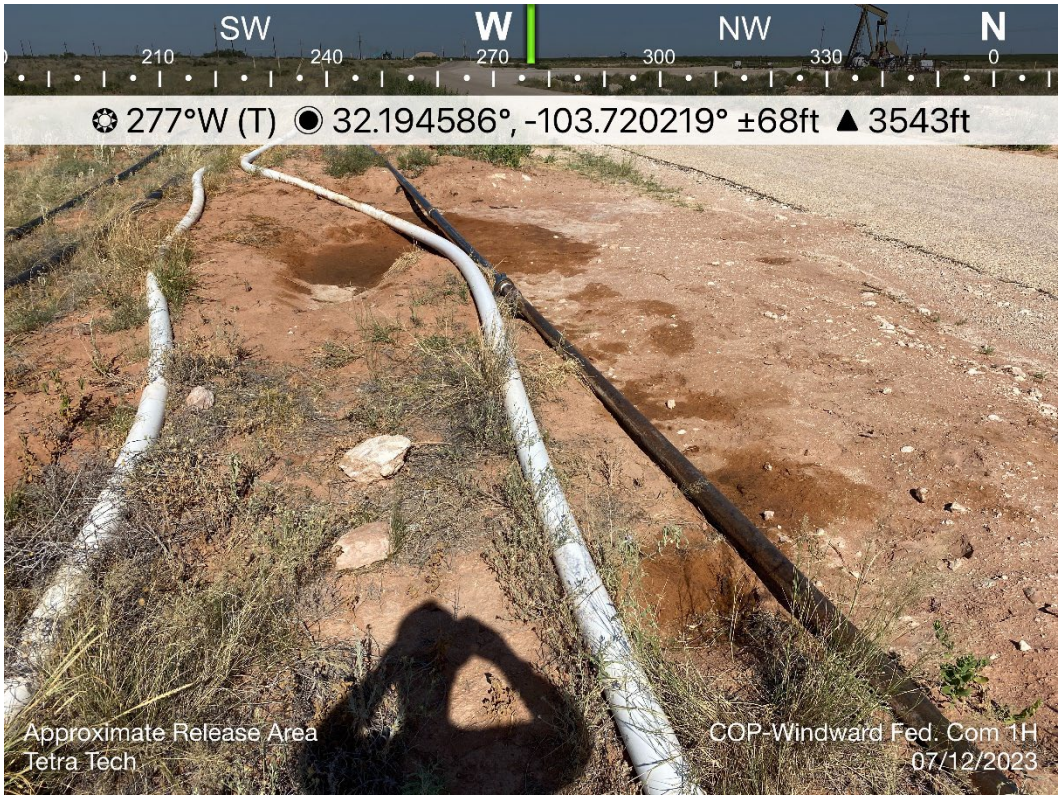
**Easting (X):** 620617.67 **Northing (Y):** 3562719 **Radius:** 1200

# APPENDIX D
# Photographic Documentation


| | | | |
|---|---|---|---|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-03162 | DESCRIPTION | View south of approximate release extent and surface polylines. Staining observed. | 1 |
| | SITE NAME | Windward Federal Com #001H Release | 7/12/2023 |

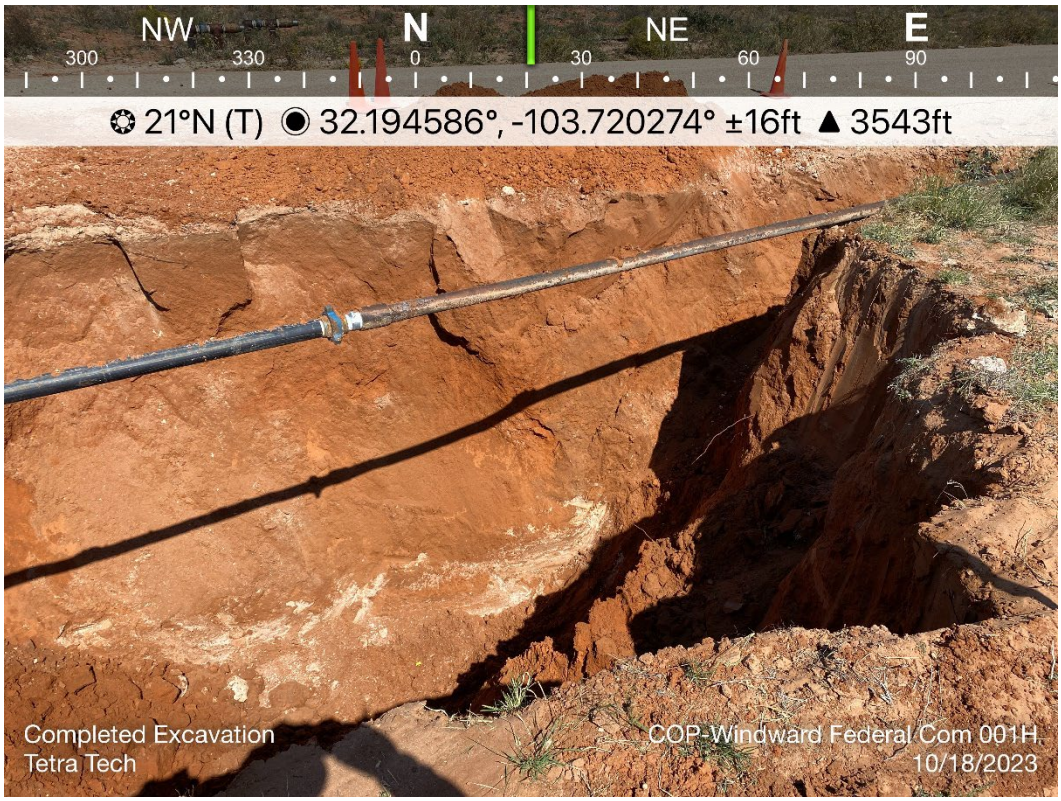



| | | | |
|---|---|---|---|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-03162 | DESCRIPTION | View east of approximate release extent and surface polylines. Staining observed. | 2 |
| | SITE NAME | Windward Federal Com #001H Release | 7/12/2023 |

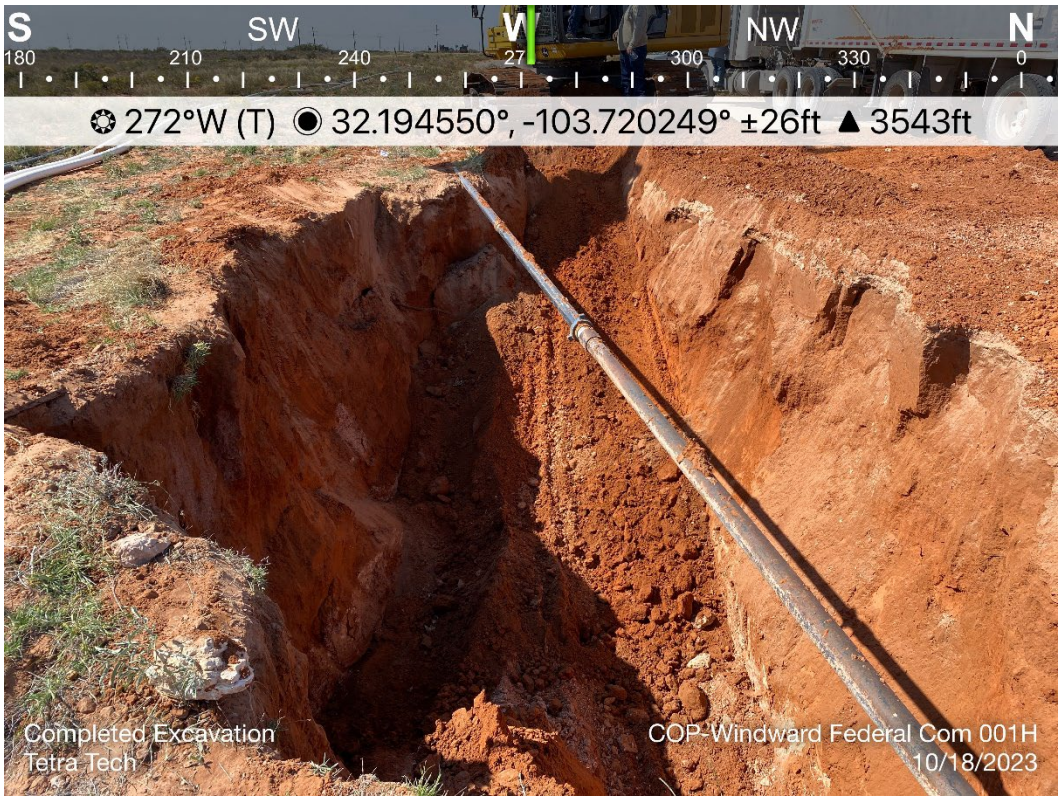



| | | | |
|---|---|---|---|
| TETRA TECH, INC. PROJECT NO. 212C-MD-03162 | DESCRIPTION | View west of approximate release extent and surface polylines. Staining observed. | 3 |
| | SITE NAME | Windward Federal Com #001H Release | 7/12/2023 |

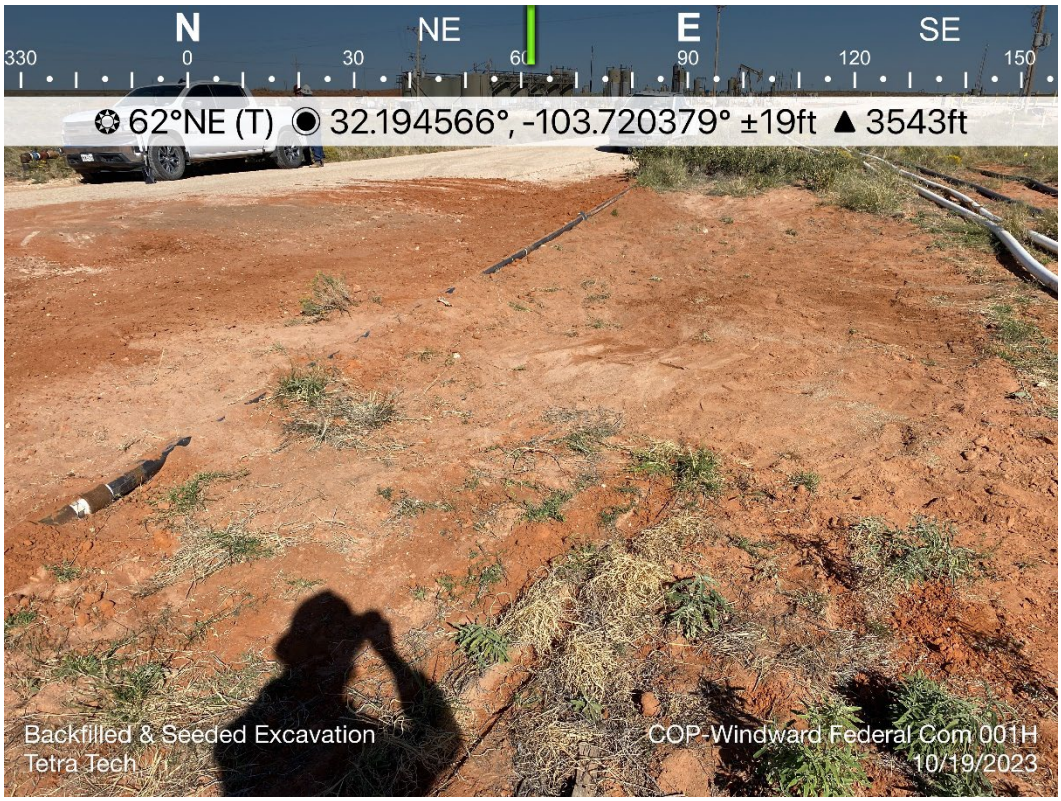

| | | | |
|---|---|---|---|
| TETRA TECH, INC. PROJECT NO. 212C-MD-03162 | DESCRIPTION | View west-southwest of open excavation of approximately 12 ft bgs. | 4 |
| | SITE NAME | Windward Federal Com #001H Release | 10/18/2023 |




| | | | |
|---|---|---|---|
| TETRA TECH, INC. PROJECT NO. 212C-MD-03162 | DESCRIPTION | View north-northeast of open excavation of approximately 12 ft bgs. | 5 |
| | SITE NAME | Windward Federal Com #001H Release | 10/18/2023 |

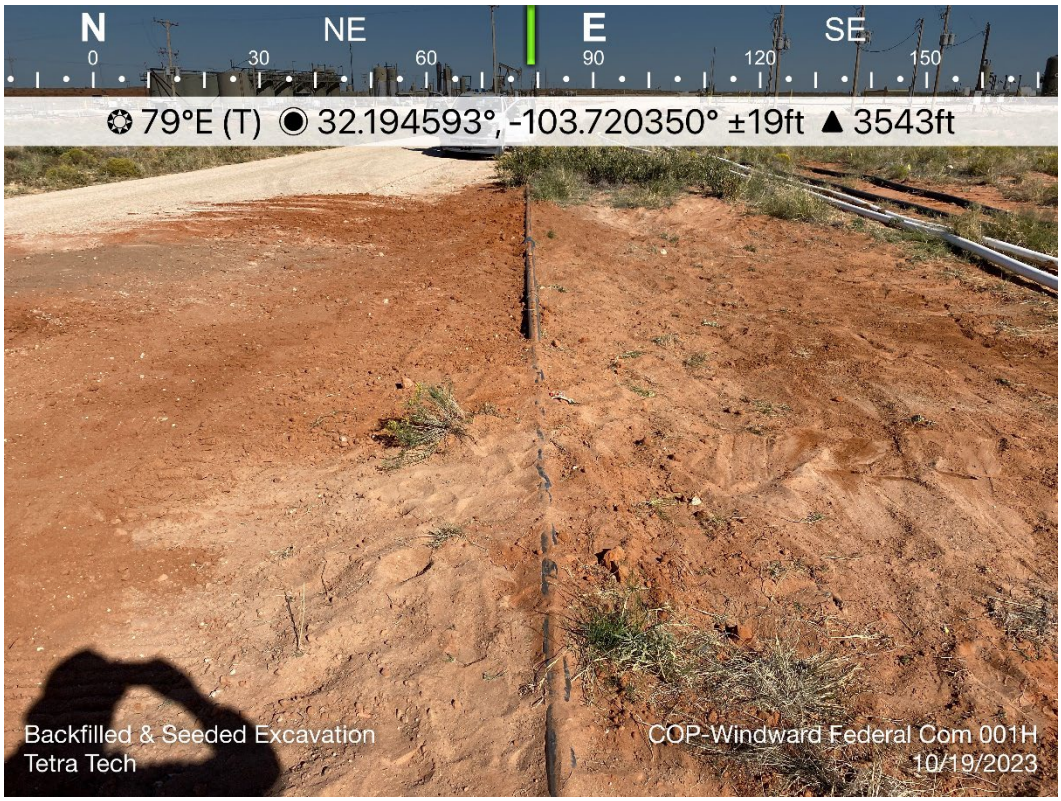



| | | | |
|---|---|---|---|
| TETRA TECH, INC. PROJECT NO. 212C-MD-03162 | DESCRIPTION | View west of open excavation of approximately 12 ft bgs. | 6 |
| | SITE NAME | Windward Federal Com #001H Release | 10/18/2023 |




| | | | |
|---|---|---|---|
| TETRA TECH, INC. PROJECT NO. 212C-MD-03162 | DESCRIPTION | View east-northeast of backfilled and seeded excavation. View of reclamation activities. | 7 |
| | SITE NAME | Windward Federal Com #001H Release | 10/19/2023 |


| | | | |
|---|---|---|---|
| TETRA TECH, INC. PROJECT NO. 212C-MD-03162 | DESCRIPTION | View south-southwest of backfilled and seeded excavation. View of reclamation activities. | 8 |
| | SITE NAME | Windward Federal Com #001H Release | 10/19/2023 |




| | | | |
|---|---|---|---|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-03162 | DESCRIPTION | View east of backfilled and seeded excavation. View of reclamation activities. | 9 |
| | SITE NAME | Windward Federal Com #001H Release | 10/19/2023 |

# APPENDIX E
# Laboratory Analytical Data

CARDINAL Laboratories

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

October 31, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: WINDWARD FEDERAL COM 001H FL RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 12:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

| | |
|---|---|
| Method SM 9223-B | Total Coliform and E. coli (Colilert MMO-MUG) |
| Method EPA 524.2 | Regulated VOCs and Total Trihalomethanes (TTHM) |
| Method EPA 552.2 | Total Haloacetic Acids (HAA-5) |

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

| | | |
|---|---|---|
| TETRA TECH<br>901 WEST WALL STREET , STE 100<br>MIDLAND TX, 79701 | Project: WINDWARD FEDERAL COM 001H<br>Project Number: 212C - MD - 03162<br>Project Manager: CHRISTIAN LLULL<br>Fax To: (432) 682-3946 | Reported:<br>31-Oct-23 09:06 |

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| AH - 1 ( 0.5'-1' ) | H233551-01 | Soil | 12-Jul-23 00:00 | 12-Jul-23 12:28 |
| AH - 1 ( 3'-4' ) | H233551-02 | Soil | 12-Jul-23 00:00 | 12-Jul-23 12:28 |
| AH - 1 ( 5'-6' ) | H233551-03 | Soil | 12-Jul-23 00:00 | 12-Jul-23 12:28 |
| AH - 2 ( 0-1' ) | H233551-04 | Soil | 12-Jul-23 00:00 | 12-Jul-23 12:28 |
| AH - 3 ( 0-1' ) | H233551-05 | Soil | 12-Jul-23 00:00 | 12-Jul-23 12:28 |
| AH - 4 ( 0-1' ) | H233551-06 | Soil | 12-Jul-23 00:00 | 12-Jul-23 12:28 |
| AH - 5 ( 0-1' ) | H233551-07 | Soil | 12-Jul-23 00:00 | 12-Jul-23 12:28 |

10/31/23 - Client changed the sample IDs (see COC). This is the revised report and will replace the one sent on 07/18/23.

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

| | | |
|---|---|---|
| TETRA TECH<br>901 WEST WALL STREET , STE 100<br>MIDLAND TX, 79701 | Project: WINDWARD FEDERAL COM 001H<br>Project Number: 212C - MD - 03162<br>Project Manager: CHRISTIAN LLULL<br>Fax To: (432) 682-3946 | Reported:<br>31-Oct-23 09:06 |

### AH - 1 ( 0.5'-1' )

**H233551-01 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Cardinal Laboratories** | | | | | | | | | | |
| **Inorganic Compounds** | | | | | | | | | | |
| Chloride | <16.0 | | 16.0 | mg/kg | 4 | 3071315 | AC | 13-Jul-23 | 4500-Cl-B | |
| **Volatile Organic Compounds by EPA Method 8021** | | | | | | | | | | **S-04** |
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| **Toluene*** | **0.260** | | 0.050 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | GC-NC |
| **Total Xylenes*** | **7.47** | | 0.150 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | GC-NC1 |
| **Total BTEX** | **7.73** | | 0.300 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | GC-NC1 |
| *Surrogate: 4-Bromofluorobenzene (PID)* | | | *237 %* | *71.5-134* | | *3071233* | MS | *13-Jul-23* | *8021B* | |
| **Petroleum Hydrocarbons by GC FID** | | | | | | | | | | **S-06** |
| **GRO C6-C10*** | **429** | | 50.0 | mg/kg | 5 | 3071236 | MS | 14-Jul-23 | 8015B | |
| **DRO >C10-C28*** | **13600** | | 50.0 | mg/kg | 5 | 3071236 | MS | 14-Jul-23 | 8015B | |
| **EXT DRO >C28-C36** | **2490** | | 50.0 | mg/kg | 5 | 3071236 | MS | 14-Jul-23 | 8015B | |
| *Surrogate: 1-Chlorooctane* | | | *214 %* | *48.2-134* | | *3071236* | MS | *14-Jul-23* | *8015B* | |
| *Surrogate: 1-Chlorooctadecane* | | | *311 %* | *49.1-148* | | *3071236* | MS | *14-Jul-23* | *8015B* | |

Cardinal Laboratories *=Accredited Analyte



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CARDINAL Laboratories

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

## Analytical Results For:

| | | |
|---|---|---|
| TETRA TECH<br>901 WEST WALL STREET , STE 100<br>MIDLAND TX, 79701 | Project: WINDWARD FEDERAL COM 001H<br>Project Number: 212C - MD - 03162<br>Project Manager: CHRISTIAN LLULL<br>Fax To: (432) 682-3946 | Reported:<br>31-Oct-23 09:06 |

### AH - 1 ( 3'-4' )

**H233551-02 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Cardinal Laboratories** | | | | | | | | | | |
| **Inorganic Compounds** | | | | | | | | | | |
| Chloride | <16.0 | | 16.0 | mg/kg | 4 | 3071315 | AC | 13-Jul-23 | 4500-Cl-B | |
| **Volatile Organic Compounds by EPA Method 8021** | | | | | | | | | | **S-04** |
| Benzene* | <0.200 | | 0.200 | mg/kg | 200 | 3071233 | MS | 13-Jul-23 | 8021B | |
| **Toluene*** | **1.42** | | 0.200 | mg/kg | 200 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Ethylbenzene* | <0.200 | | 0.200 | mg/kg | 200 | 3071233 | MS | 13-Jul-23 | 8021B | |
| **Total Xylenes*** | **41.6** | | 0.600 | mg/kg | 200 | 3071233 | MS | 13-Jul-23 | 8021B | GC-NC1 |
| **Total BTEX** | **43.0** | | 1.20 | mg/kg | 200 | 3071233 | MS | 13-Jul-23 | 8021B | GC-NC1 |
| *Surrogate: 4-Bromofluorobenzene (PID)* | | | *247 %* | *71.5-134* | | *3071233* | MS | *13-Jul-23* | *8021B* | |
| **Petroleum Hydrocarbons by GC FID** | | | | | | | | | | **S-04** |
| **GRO C6-C10*** | **1060** | | 10.0 | mg/kg | 1 | 3071236 | MS | 13-Jul-23 | 8015B | |
| **DRO >C10-C28*** | **5440** | | 10.0 | mg/kg | 1 | 3071236 | MS | 13-Jul-23 | 8015B | |
| **EXT DRO >C28-C36** | **796** | | 10.0 | mg/kg | 1 | 3071236 | MS | 13-Jul-23 | 8015B | |
| *Surrogate: 1-Chlorooctane* | | | *207 %* | *48.2-134* | | *3071236* | MS | *13-Jul-23* | *8015B* | |
| *Surrogate: 1-Chlorooctadecane* | | | *132 %* | *49.1-148* | | *3071236* | MS | *13-Jul-23* | *8015B* | |

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CARDINAL Laboratories

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## Analytical Results For:

| | | |
|---|---|---|
| TETRA TECH<br>901 WEST WALL STREET , STE 100<br>MIDLAND TX, 79701 | Project: WINDWARD FEDERAL COM 001H<br>Project Number: 212C - MD - 03162<br>Project Manager: CHRISTIAN LLULL<br>Fax To: (432) 682-3946 | Reported:<br>31-Oct-23 09:06 |

### AH - 1 ( 5'-6' )

**H233551-03 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Cardinal Laboratories** | | | | | | | | | | |
| **Inorganic Compounds** | | | | | | | | | | |
| **Chloride** | **3240** | | 16.0 | mg/kg | 4 | 3071315 | AC | 13-Jul-23 | 4500-Cl-B | |
| **Volatile Organic Compounds by EPA Method 8021** | | | | | | | | | | **S-04** |
| **Benzene*** | **7.94** | | 1.00 | mg/kg | 1000 | 3071233 | MS | 13-Jul-23 | 8021B | |
| **Toluene*** | **77.2** | | 1.00 | mg/kg | 1000 | 3071233 | MS | 13-Jul-23 | 8021B | |
| **Ethylbenzene*** | **23.5** | | 1.00 | mg/kg | 1000 | 3071233 | MS | 13-Jul-23 | 8021B | |
| **Total Xylenes*** | **149** | | 3.00 | mg/kg | 1000 | 3071233 | MS | 13-Jul-23 | 8021B | |
| **Total BTEX** | **258** | | 6.00 | mg/kg | 1000 | 3071233 | MS | 13-Jul-23 | 8021B | |
| *Surrogate: 4-Bromofluorobenzene (PID)* | | | *141 %* | *71.5-134* | | *3071233* | MS | *13-Jul-23* | *8021B* | |
| **Petroleum Hydrocarbons by GC FID** | | | | | | | | | | **S-04** |
| **GRO C6-C10*** | **4620** | | 10.0 | mg/kg | 1 | 3071236 | MS | 13-Jul-23 | 8015B | |
| **DRO >C10-C28*** | **8920** | | 10.0 | mg/kg | 1 | 3071236 | MS | 13-Jul-23 | 8015B | |
| **EXT DRO >C28-C36** | **1540** | | 10.0 | mg/kg | 1 | 3071236 | MS | 13-Jul-23 | 8015B | |
| *Surrogate: 1-Chlorooctane* | | | *314 %* | *48.2-134* | | *3071236* | MS | *13-Jul-23* | *8015B* | |
| *Surrogate: 1-Chlorooctadecane* | | | *200 %* | *49.1-148* | | *3071236* | MS | *13-Jul-23* | *8015B* | |

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

| | | |
|---|---|---|
| TETRA TECH<br>901 WEST WALL STREET , STE 100<br>MIDLAND TX, 79701 | Project: WINDWARD FEDERAL COM 001H<br>Project Number: 212C - MD - 03162<br>Project Manager: CHRISTIAN LLULL<br>Fax To: (432) 682-3946 | Reported:<br>31-Oct-23 09:06 |

### AH - 2 ( 0-1' )

**H233551-04 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Cardinal Laboratories** | | | | | | | | | | |
| **Inorganic Compounds** | | | | | | | | | | |
| **Chloride** | **160** | | 16.0 | mg/kg | 4 | 3071315 | AC | 13-Jul-23 | 4500-Cl-B | |
| **Volatile Organic Compounds by EPA Method 8021** | | | | | | | | | | |
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 18-Jul-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 18-Jul-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 18-Jul-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3071233 | MS | 18-Jul-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3071233 | MS | 18-Jul-23 | 8021B | |
| *Surrogate: 4-Bromofluorobenzene (PID)* | | | *104 %* | *71.5-134* | | *3071233* | MS | *18-Jul-23* | *8021B* | |
| **Petroleum Hydrocarbons by GC FID** | | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3071236 | MS | 18-Jul-23 | 8015B | |
| **DRO >C10-C28*** | **25.5** | | 10.0 | mg/kg | 1 | 3071236 | MS | 18-Jul-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3071236 | MS | 18-Jul-23 | 8015B | |
| *Surrogate: 1-Chlorooctane* | | | *92.5 %* | *48.2-134* | | *3071236* | MS | *18-Jul-23* | *8015B* | |
| *Surrogate: 1-Chlorooctadecane* | | | *101 %* | *49.1-148* | | *3071236* | MS | *18-Jul-23* | *8015B* | |

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

| | | |
|---|---|---|
| TETRA TECH<br>901 WEST WALL STREET , STE 100<br>MIDLAND TX, 79701 | Project: WINDWARD FEDERAL COM 001H<br>Project Number: 212C - MD - 03162<br>Project Manager: CHRISTIAN LLULL<br>Fax To: (432) 682-3946 | Reported:<br>31-Oct-23 09:06 |

### AH - 3 ( 0-1' )

**H233551-05 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Cardinal Laboratories** | | | | | | | | | | |
| **Inorganic Compounds** | | | | | | | | | | |
| **Chloride** | **32.0** | | 16.0 | mg/kg | 4 | 3071315 | AC | 13-Jul-23 | 4500-Cl-B | |
| **Volatile Organic Compounds by EPA Method 8021** | | | | | | | | | | |
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| *Surrogate: 4-Bromofluorobenzene (PID)* | | | *105 %* | *71.5-134* | | *3071233* | MS | *13-Jul-23* | *8021B* | |
| **Petroleum Hydrocarbons by GC FID** | | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3071236 | MS | 18-Jul-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3071236 | MS | 18-Jul-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3071236 | MS | 18-Jul-23 | 8015B | |
| *Surrogate: 1-Chlorooctane* | | | *94.1 %* | *48.2-134* | | *3071236* | MS | *18-Jul-23* | *8015B* | |
| *Surrogate: 1-Chlorooctadecane* | | | *102 %* | *49.1-148* | | *3071236* | MS | *18-Jul-23* | *8015B* | |

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

| | | |
|---|---|---|
| TETRA TECH<br>901 WEST WALL STREET , STE 100<br>MIDLAND TX, 79701 | Project: WINDWARD FEDERAL COM 001H<br>Project Number: 212C - MD - 03162<br>Project Manager: CHRISTIAN LLULL<br>Fax To: (432) 682-3946 | Reported:<br>31-Oct-23 09:06 |

### AH - 4 ( 0-1' )

**H233551-06 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Cardinal Laboratories** | | | | | | | | | | |
| **Inorganic Compounds** | | | | | | | | | | |
| **Chloride** | **80.0** | | 16.0 | mg/kg | 4 | 3071315 | AC | 13-Jul-23 | 4500-Cl-B | |
| **Volatile Organic Compounds by EPA Method 8021** | | | | | | | | | | |
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| *Surrogate: 4-Bromofluorobenzene (PID)* | | | *106 %* | *71.5-134* | | *3071233* | MS | *13-Jul-23* | *8021B* | |
| **Petroleum Hydrocarbons by GC FID** | | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3071236 | MS | 18-Jul-23 | 8015B | |
| DRO >C10-C28* | <10.0 | | 10.0 | mg/kg | 1 | 3071236 | MS | 18-Jul-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3071236 | MS | 18-Jul-23 | 8015B | |
| *Surrogate: 1-Chlorooctane* | | | *93.6 %* | *48.2-134* | | *3071236* | MS | *18-Jul-23* | *8015B* | |
| *Surrogate: 1-Chlorooctadecane* | | | *102 %* | *49.1-148* | | *3071236* | MS | *18-Jul-23* | *8015B* | |

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

| | | |
|---|---|---|
| TETRA TECH<br>901 WEST WALL STREET , STE 100<br>MIDLAND TX, 79701 | Project: WINDWARD FEDERAL COM 001H<br>Project Number: 212C - MD - 03162<br>Project Manager: CHRISTIAN LLULL<br>Fax To: (432) 682-3946 | Reported:<br>31-Oct-23 09:06 |

### AH - 5 ( 0-1' )

**H233551-07 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Cardinal Laboratories** | | | | | | | | | | |
| **Inorganic Compounds** | | | | | | | | | | |
| **Chloride** | **48.0** | | 16.0 | mg/kg | 4 | 3071315 | AC | 13-Jul-23 | 4500-Cl-B | |
| **Volatile Organic Compounds by EPA Method 8021** | | | | | | | | | | |
| Benzene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Toluene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Ethylbenzene* | <0.050 | | 0.050 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Total Xylenes* | <0.150 | | 0.150 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| Total BTEX | <0.300 | | 0.300 | mg/kg | 50 | 3071233 | MS | 13-Jul-23 | 8021B | |
| *Surrogate: 4-Bromofluorobenzene (PID)* | | | *107 %* | *71.5-134* | | *3071233* | MS | *13-Jul-23* | *8021B* | |
| **Petroleum Hydrocarbons by GC FID** | | | | | | | | | | |
| GRO C6-C10* | <10.0 | | 10.0 | mg/kg | 1 | 3071236 | MS | 18-Jul-23 | 8015B | |
| **DRO >C10-C28*** | **14.3** | | 10.0 | mg/kg | 1 | 3071236 | MS | 18-Jul-23 | 8015B | |
| EXT DRO >C28-C36 | <10.0 | | 10.0 | mg/kg | 1 | 3071236 | MS | 18-Jul-23 | 8015B | |
| *Surrogate: 1-Chlorooctane* | | | *98.0 %* | *48.2-134* | | *3071236* | MS | *18-Jul-23* | *8015B* | |
| *Surrogate: 1-Chlorooctadecane* | | | *107 %* | *49.1-148* | | *3071236* | MS | *18-Jul-23* | *8015B* | |

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

| | | |
|---|---|---|
| TETRA TECH<br>901 WEST WALL STREET , STE 100<br>MIDLAND TX, 79701 | Project: WINDWARD FEDERAL COM 001H<br>Project Number: 212C - MD - 03162<br>Project Manager: CHRISTIAN LLULL<br>Fax To: (432) 682-3946 | Reported:<br>31-Oct-23 09:06 |

### Inorganic Compounds - Quality Control

### Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 3071315 - 1:4 DI Water** | | | | | | | | | | |
| **Blank (3071315-BLK1)** | | | | Prepared & Analyzed: 13-Jul-23 | | | | | | |
| Chloride | ND | 16.0 | mg/kg | | | | | | | |
| **LCS (3071315-BS1)** | | | | Prepared & Analyzed: 13-Jul-23 | | | | | | |
| Chloride | 416 | 16.0 | mg/kg | 400 | | 104 | 80-120 | | | |
| **LCS Dup (3071315-BSD1)** | | | | Prepared & Analyzed: 13-Jul-23 | | | | | | |
| Chloride | 416 | 16.0 | mg/kg | 400 | | 104 | 80-120 | 0.00 | 20 | |

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

| | | |
|---|---|---|
| TETRA TECH<br>901 WEST WALL STREET , STE 100<br>MIDLAND TX, 79701 | Project: WINDWARD FEDERAL COM 001H<br>Project Number: 212C - MD - 03162<br>Project Manager: CHRISTIAN LLULL<br>Fax To: (432) 682-3946 | Reported:<br>31-Oct-23 09:06 |

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 3071233 - Volatiles** | | | | | | | | | | |
| **Blank (3071233-BLK1)** | | | | Prepared: 12-Jul-23 Analyzed: 13-Jul-23 | | | | | | |
| Benzene | ND | 0.050 | mg/kg | | | | | | | |
| Toluene | ND | 0.050 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.050 | mg/kg | | | | | | | |
| Total Xylenes | ND | 0.150 | mg/kg | | | | | | | |
| Total BTEX | ND | 0.300 | mg/kg | | | | | | | |
| *Surrogate: 4-Bromofluorobenzene (PID)* | *0.0524* | | mg/kg | *0.0500* | | *105* | *71.5-134* | | | |
| **LCS (3071233-BS1)** | | | | Prepared: 12-Jul-23 Analyzed: 13-Jul-23 | | | | | | |
| Benzene | 2.00 | 0.050 | mg/kg | 2.00 | | 100 | 82.8-130 | | | |
| Toluene | 1.97 | 0.050 | mg/kg | 2.00 | | 98.7 | 86-128 | | | |
| Ethylbenzene | 1.95 | 0.050 | mg/kg | 2.00 | | 97.3 | 85.9-128 | | | |
| m,p-Xylene | 3.98 | 0.100 | mg/kg | 4.00 | | 99.4 | 89-129 | | | |
| o-Xylene | 1.94 | 0.050 | mg/kg | 2.00 | | 96.8 | 86.1-125 | | | |
| Total Xylenes | 5.91 | 0.150 | mg/kg | 6.00 | | 98.6 | 88.2-128 | | | |
| *Surrogate: 4-Bromofluorobenzene (PID)* | *0.0488* | | mg/kg | *0.0500* | | *97.6* | *71.5-134* | | | |
| **LCS Dup (3071233-BSD1)** | | | | Prepared: 12-Jul-23 Analyzed: 13-Jul-23 | | | | | | |
| Benzene | 2.02 | 0.050 | mg/kg | 2.00 | | 101 | 82.8-130 | 0.826 | 15.8 | |
| Toluene | 2.00 | 0.050 | mg/kg | 2.00 | | 100 | 86-128 | 1.56 | 15.9 | |
| Ethylbenzene | 1.98 | 0.050 | mg/kg | 2.00 | | 99.1 | 85.9-128 | 1.79 | 16 | |
| m,p-Xylene | 4.02 | 0.100 | mg/kg | 4.00 | | 101 | 89-129 | 1.14 | 16.2 | |
| o-Xylene | 1.98 | 0.050 | mg/kg | 2.00 | | 98.8 | 86.1-125 | 2.04 | 16.7 | |
| Total Xylenes | 6.00 | 0.150 | mg/kg | 6.00 | | 100 | 88.2-128 | 1.44 | 16.3 | |
| *Surrogate: 4-Bromofluorobenzene (PID)* | *0.0502* | | mg/kg | *0.0500* | | *100* | *71.5-134* | | | |

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

| | | |
|---|---|---|
| TETRA TECH<br>901 WEST WALL STREET , STE 100<br>MIDLAND TX, 79701 | Project: WINDWARD FEDERAL COM 001H<br>Project Number: 212C - MD - 03162<br>Project Manager: CHRISTIAN LLULL<br>Fax To: (432) 682-3946 | Reported:<br>31-Oct-23 09:06 |

### Petroleum Hydrocarbons by GC FID - Quality Control

### Cardinal Laboratories

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 3071236 - General Prep - Organics** | | | | | | | | | | |
| **Blank (3071236-BLK1)** | | | | Prepared: 12-Jul-23 Analyzed: 13-Jul-23 | | | | | | |
| GRO C6-C10 | ND | 10.0 | mg/kg | | | | | | | |
| DRO >C10-C28 | ND | 10.0 | mg/kg | | | | | | | |
| EXT DRO >C28-C36 | ND | 10.0 | mg/kg | | | | | | | |
| *Surrogate: 1-Chlorooctane* | *54.3* | | mg/kg | *49.6* | | *110* | *48.2-134* | | | |
| *Surrogate: 1-Chlorooctadecane* | *59.4* | | mg/kg | *50.0* | | *119* | *49.1-148* | | | |
| **LCS (3071236-BS1)** | | | | Prepared: 12-Jul-23 Analyzed: 14-Jul-23 | | | | | | |
| GRO C6-C10 | 204 | 10.0 | mg/kg | 200 | | 102 | 66.4-123 | | | |
| DRO >C10-C28 | 199 | 10.0 | mg/kg | 200 | | 99.6 | 66.5-118 | | | |
| Total TPH C6-C28 | 404 | 10.0 | mg/kg | 400 | | 101 | 77.6-123 | | | |
| *Surrogate: 1-Chlorooctane* | *65.0* | | mg/kg | *49.6* | | *131* | *48.2-134* | | | |
| *Surrogate: 1-Chlorooctadecane* | *69.2* | | mg/kg | *50.0* | | *138* | *49.1-148* | | | |
| **LCS Dup (3071236-BSD1)** | | | | Prepared: 12-Jul-23 Analyzed: 14-Jul-23 | | | | | | |
| GRO C6-C10 | 201 | 10.0 | mg/kg | 200 | | 101 | 66.4-123 | 1.38 | 17.7 | |
| DRO >C10-C28 | 190 | 10.0 | mg/kg | 200 | | 94.9 | 66.5-118 | 4.84 | 21 | |
| Total TPH C6-C28 | 391 | 10.0 | mg/kg | 400 | | 97.8 | 77.6-123 | 3.07 | 18.5 | |
| *Surrogate: 1-Chlorooctane* | *59.8* | | mg/kg | *49.6* | | *121* | *48.2-134* | | | |
| *Surrogate: 1-Chlorooctadecane* | *61.8* | | mg/kg | *50.0* | | *124* | *49.1-148* | | | |

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Notes and Definitions

| | |
|---|---|
| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. |
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| GC-NC1 | 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds. |
| GC-NC | 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | |
|---|---|
| Company Name: Tetra Tech | **BILL TO** |
| Project Manager: Christian Llull | P.O. #: |
| Address: 8911 Capital o Texas Hwy, Suite 2310 | Company: Tetra Tech |
| City: Austin State: TX Zip: | Attn: Christian Llull |
| Phone #: (512)565-0190 Fax #: | Address: EMAIL |
| Project #: 212C-MD-03162 Project Owner: ConocoPhillips | City: |
| Project Name: Windward Federal Com 001H Flowline Release | State: Zip: |
| Project Location: Lea County, New Mexico | Phone #: |
| Sampler Name: Colton Bickerstaff | Fax #: |

FOR LAB USE ONLY

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | ANALYSIS REQUEST: TPH 8015M | BTEX 8021B | Chloride SM4500CI-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H233551 | | | | | | | | | | | | | | | | | |
| 1 | AH-1 (0.5'-1') | G | 1 | | | X | | | | | X | | 7/12/2023 | | X | X | X |
| 2 | AH-1 (3'-4') | G | 1 | | | X | | | | | X | | 7/12/2023 | | X | X | X |
| 3 | AH-1 (5'-6') | G | 1 | | | X | | | | | X | | 7/12/2023 | | X | X | X |
| * 4 | ~~SW-1~~ AH-2 (0-1') | G | 1 | | | X | | | | | X | | 7/12/2023 | | X | X | X |
| * 5 | ~~SW-2~~ AH-3 (0-1') | G | 1 | | | X | | | | | X | | 7/12/2023 | | X | X | X |
| 6 | ~~SW-3~~ AH-4 (0-1') | G | 1 | | | X | | | | | X | | 7/12/2023 | | X | X | X |
| 7 | ~~SW-4~~ AH-5 (0-1') | G | 1 | | | X | | | | | X | | 7/12/2023 | | X | X | X |

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | |
|---|---|---|---|
| Relinquished By: Colton Bickerstaff | Date: 7/12/23 Time: 1228 | Received By: | Verbal Result: ☐ Yes ☐ No Add'l Phone #: |
| Relinquished By: | Date: Time: | Received By: | All Results are emailed. Please provide Email address: Christian.Llull@tetratech.com |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | Observed Temp. °C Corrected Temp. °C 2.3 | Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No | CHECKED BY: (Initials) |

REMARKS: * Customer requested Sample ID Changes. TO. 10/27/23

Turnaround Time: Standard ✱ Bacteria (only) Sample Condition
Rush: N/A, Standard TAT ☐ Cool Intact Observed Temp. °C
Thermometer ID ~~#113~~ #140
Correction Factor ~~-0.5~~ °C T°. 7/12/23 ☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

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

September 18, 2023

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: WINDWARD FEDERAL COM 001H FL RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/13/23 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

TETRA TECH
SAM ABBOTT
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

| | | | |
|---|---|---|---|
| Received: | 09/13/2023 | Sampling Date: | 09/12/2023 |
| Reported: | 09/18/2023 | Sampling Type: | Soil |
| Project Name: | WINDWARD FEDERAL COM 001H FL RE | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03162 | Sample Received By: | Dionica Hinojos |
| Project Location: | COP - LEA CO NM | | |

### Sample ID: BH - 1 (0-1') (H234938-01)

**BTEX 8021B** mg/kg Analyzed By: MS S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 09/15/2023 | ND | 1.81 | 90.6 | 2.00 | 2.77 | |
| **Toluene*** | **0.248** | 0.050 | 09/15/2023 | ND | 1.89 | 94.7 | 2.00 | 2.71 | |
| **Ethylbenzene*** | **0.354** | 0.050 | 09/15/2023 | ND | 1.95 | 97.3 | 2.00 | 1.97 | |
| **Total Xylenes*** | **6.17** | 0.150 | 09/15/2023 | ND | 5.49 | 91.5 | 6.00 | 3.20 | |
| **Total BTEX** | **6.77** | 0.300 | 09/15/2023 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *179 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **96.0** | 16.0 | 09/14/2023 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **GRO C6-C10*** | **309** | 10.0 | 09/14/2023 | ND | 195 | 97.3 | 200 | 2.70 | |
| **DRO >C10-C28*** | **4920** | 10.0 | 09/14/2023 | ND | 208 | 104 | 200 | 4.95 | |
| **EXT DRO >C28-C36** | **830** | 10.0 | 09/14/2023 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *165 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *252 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

TETRA TECH
SAM ABBOTT
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

| | | | |
|---|---|---|---|
| Received: | 09/13/2023 | Sampling Date: | 09/12/2023 |
| Reported: | 09/18/2023 | Sampling Type: | Soil |
| Project Name: | WINDWARD FEDERAL COM 001H FL RE | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03162 | Sample Received By: | Dionica Hinojos |
| Project Location: | COP - LEA CO NM | | |

### Sample ID: BH - 1 (2'-3') (H234938-02)

**BTEX 8021B** mg/kg Analyzed By: MS S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.200 | 0.200 | 09/15/2023 | ND | 1.81 | 90.6 | 2.00 | 2.77 | |
| **Toluene*** | **3.52** | 0.200 | 09/15/2023 | ND | 1.89 | 94.7 | 2.00 | 2.71 | |
| **Ethylbenzene*** | **2.95** | 0.200 | 09/15/2023 | ND | 1.95 | 97.3 | 2.00 | 1.97 | |
| **Total Xylenes*** | **25.3** | 0.600 | 09/15/2023 | ND | 5.49 | 91.5 | 6.00 | 3.20 | |
| **Total BTEX** | **31.7** | 1.20 | 09/15/2023 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *251 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **528** | 16.0 | 09/14/2023 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **GRO C6-C10*** | **568** | 10.0 | 09/14/2023 | ND | 195 | 97.3 | 200 | 2.70 | |
| **DRO >C10-C28*** | **5440** | 10.0 | 09/14/2023 | ND | 208 | 104 | 200 | 4.95 | |
| **EXT DRO >C28-C36** | **878** | 10.0 | 09/14/2023 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *173 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *280 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

TETRA TECH
SAM ABBOTT
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

| | | | |
|---|---|---|---|
| Received: | 09/13/2023 | Sampling Date: | 09/12/2023 |
| Reported: | 09/18/2023 | Sampling Type: | Soil |
| Project Name: | WINDWARD FEDERAL COM 001H FL RE | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03162 | Sample Received By: | Dionica Hinojos |
| Project Location: | COP - LEA CO NM | | |

### Sample ID: BH - 1 (4'-5') (H234938-03)

**BTEX 8021B** mg/kg Analyzed By: MS S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene*** | **0.647** | 0.200 | 09/15/2023 | ND | 1.81 | 90.6 | 2.00 | 2.77 | |
| **Toluene*** | **17.0** | 0.200 | 09/15/2023 | ND | 1.89 | 94.7 | 2.00 | 2.71 | |
| **Ethylbenzene*** | **6.68** | 0.200 | 09/15/2023 | ND | 1.95 | 97.3 | 2.00 | 1.97 | |
| **Total Xylenes*** | **46.3** | 0.600 | 09/15/2023 | ND | 5.49 | 91.5 | 6.00 | 3.20 | |
| **Total BTEX** | **70.6** | 1.20 | 09/15/2023 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *283 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **832** | 16.0 | 09/14/2023 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **GRO C6-C10*** | **703** | 10.0 | 09/14/2023 | ND | 195 | 97.3 | 200 | 2.70 | |
| **DRO >C10-C28*** | **5100** | 10.0 | 09/14/2023 | ND | 208 | 104 | 200 | 4.95 | |
| **EXT DRO >C28-C36** | **827** | 10.0 | 09/14/2023 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *168 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *286 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

TETRA TECH
SAM ABBOTT
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

| | | | |
|---|---|---|---|
| Received: | 09/13/2023 | Sampling Date: | 09/12/2023 |
| Reported: | 09/18/2023 | Sampling Type: | Soil |
| Project Name: | WINDWARD FEDERAL COM 001H FL RE | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03162 | Sample Received By: | Dionica Hinojos |
| Project Location: | COP - LEA CO NM | | |

### Sample ID: BH - 1 (6'-7') (H234938-04)

**BTEX 8021B** mg/kg Analyzed By: MS S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.200 | 0.200 | 09/15/2023 | ND | 1.81 | 90.6 | 2.00 | 2.77 | |
| **Toluene*** | **3.37** | 0.200 | 09/15/2023 | ND | 1.89 | 94.7 | 2.00 | 2.71 | |
| **Ethylbenzene*** | **2.77** | 0.200 | 09/15/2023 | ND | 1.95 | 97.3 | 2.00 | 1.97 | |
| **Total Xylenes*** | **17.3** | 0.600 | 09/15/2023 | ND | 5.49 | 91.5 | 6.00 | 3.20 | |
| **Total BTEX** | **23.5** | 1.20 | 09/15/2023 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *224 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **336** | 16.0 | 09/14/2023 | ND | 400 | 100 | 400 | 3.92 | |

**TPH 8015M** mg/kg Analyzed By: MS S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **GRO C6-C10*** | **621** | 10.0 | 09/14/2023 | ND | 195 | 97.3 | 200 | 2.70 | |
| **DRO >C10-C28*** | **6330** | 10.0 | 09/14/2023 | ND | 208 | 104 | 200 | 4.95 | |
| **EXT DRO >C28-C36** | **996** | 10.0 | 09/14/2023 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *178 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *283 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

TETRA TECH
SAM ABBOTT
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

| | | | |
|---|---|---|---|
| Received: | 09/13/2023 | Sampling Date: | 09/12/2023 |
| Reported: | 09/18/2023 | Sampling Type: | Soil |
| Project Name: | WINDWARD FEDERAL COM 001H FL RE | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03162 | Sample Received By: | Dionica Hinojos |
| Project Location: | COP - LEA CO NM | | |

### Sample ID: BH - 1 (8'-9') (H234938-05)

**BTEX 8021B** mg/kg Analyzed By: MS S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.500 | 0.500 | 09/15/2023 | ND | 1.81 | 90.6 | 2.00 | 2.77 | |
| **Toluene*** | **4.56** | 0.500 | 09/15/2023 | ND | 1.89 | 94.7 | 2.00 | 2.71 | |
| **Ethylbenzene*** | **3.09** | 0.500 | 09/15/2023 | ND | 1.95 | 97.3 | 2.00 | 1.97 | |
| **Total Xylenes*** | **20.8** | 1.50 | 09/15/2023 | ND | 5.49 | 91.5 | 6.00 | 3.20 | |
| **Total BTEX** | **28.5** | 3.00 | 09/15/2023 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *166 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **240** | 16.0 | 09/14/2023 | ND | 400 | 100 | 400 | 3.92 | |

**TPH 8015M** mg/kg Analyzed By: MS S-06

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **GRO C6-C10*** | **994** | 50.0 | 09/14/2023 | ND | 195 | 97.4 | 200 | 2.16 | |
| **DRO >C10-C28*** | **9780** | 50.0 | 09/14/2023 | ND | 201 | 100 | 200 | 1.87 | |
| **EXT DRO >C28-C36** | **1530** | 50.0 | 09/14/2023 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *251 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *200 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

TETRA TECH
SAM ABBOTT
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

| | | | |
|---|---|---|---|
| Received: | 09/13/2023 | Sampling Date: | 09/12/2023 |
| Reported: | 09/18/2023 | Sampling Type: | Soil |
| Project Name: | WINDWARD FEDERAL COM 001H FL RE | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03162 | Sample Received By: | Dionica Hinojos |
| Project Location: | COP - LEA CO NM | | |

### Sample ID: BH - 1 (9'-10') (H234938-06)

**BTEX 8021B** mg/kg Analyzed By: MS S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene*** | **1.32** | 0.500 | 09/15/2023 | ND | 1.81 | 90.6 | 2.00 | 2.77 | |
| **Toluene*** | **17.1** | 0.500 | 09/15/2023 | ND | 1.89 | 94.7 | 2.00 | 2.71 | |
| **Ethylbenzene*** | **5.84** | 0.500 | 09/15/2023 | ND | 1.95 | 97.3 | 2.00 | 1.97 | |
| **Total Xylenes*** | **38.7** | 1.50 | 09/15/2023 | ND | 5.49 | 91.5 | 6.00 | 3.20 | |
| **Total BTEX** | **62.9** | 3.00 | 09/15/2023 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *169 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **256** | 16.0 | 09/14/2023 | ND | 400 | 100 | 400 | 3.92 | |

**TPH 8015M** mg/kg Analyzed By: MS S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **GRO C6-C10*** | **1030** | 10.0 | 09/14/2023 | ND | 195 | 97.4 | 200 | 2.16 | |
| **DRO >C10-C28*** | **7540** | 10.0 | 09/14/2023 | ND | 201 | 100 | 200 | 1.87 | |
| **EXT DRO >C28-C36** | **1210** | 10.0 | 09/14/2023 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *216 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *159 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

TETRA TECH
SAM ABBOTT
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

| | | | |
|---|---|---|---|
| Received: | 09/13/2023 | Sampling Date: | 09/12/2023 |
| Reported: | 09/18/2023 | Sampling Type: | Soil |
| Project Name: | WINDWARD FEDERAL COM 001H FL RE | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03162 | Sample Received By: | Dionica Hinojos |
| Project Location: | COP - LEA CO NM | | |

### Sample ID: BH - 1 (12'-13') (H234938-07)

**BTEX 8021B** mg/kg Analyzed By: MS S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 09/15/2023 | ND | 1.81 | 90.6 | 2.00 | 2.77 | |
| **Toluene*** | **0.621** | 0.050 | 09/15/2023 | ND | 1.89 | 94.7 | 2.00 | 2.71 | |
| **Ethylbenzene*** | **0.511** | 0.050 | 09/15/2023 | ND | 1.95 | 97.3 | 2.00 | 1.97 | |
| **Total Xylenes*** | **3.86** | 0.150 | 09/15/2023 | ND | 5.49 | 91.5 | 6.00 | 3.20 | |
| **Total BTEX** | **4.99** | 0.300 | 09/15/2023 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *210 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **80.0** | 16.0 | 09/14/2023 | ND | 400 | 100 | 400 | 3.92 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **GRO C6-C10*** | **108** | 10.0 | 09/14/2023 | ND | 195 | 97.4 | 200 | 2.16 | |
| **DRO >C10-C28*** | **1890** | 10.0 | 09/14/2023 | ND | 201 | 100 | 200 | 1.87 | |
| **EXT DRO >C28-C36** | **339** | 10.0 | 09/14/2023 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *126 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *114 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

TETRA TECH
SAM ABBOTT
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

| | | | |
|---|---|---|---|
| Received: | 09/13/2023 | Sampling Date: | 09/12/2023 |
| Reported: | 09/18/2023 | Sampling Type: | Soil |
| Project Name: | WINDWARD FEDERAL COM 001H FL RE | Sampling Condition: | Cool & Intact |
| Project Number: | 212C - MD - 03162 | Sample Received By: | Dionica Hinojos |
| Project Location: | COP - LEA CO NM | | |

### Sample ID: BH - 1 (14'-15') (H234938-08)

**BTEX 8021B** mg/kg **Analyzed By: MS**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 09/15/2023 | ND | 1.81 | 90.6 | 2.00 | 2.77 | |
| Toluene* | <0.050 | 0.050 | 09/15/2023 | ND | 1.89 | 94.7 | 2.00 | 2.71 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/15/2023 | ND | 1.95 | 97.3 | 2.00 | 1.97 | |
| **Total Xylenes*** | **0.200** | 0.150 | 09/15/2023 | ND | 5.49 | 91.5 | 6.00 | 3.20 | |
| Total BTEX | <0.300 | 0.300 | 09/15/2023 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *116 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg **Analyzed By: AC**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **112** | 16.0 | 09/14/2023 | ND | 400 | 100 | 400 | 3.92 | |

**TPH 8015M** mg/kg **Analyzed By: MS**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 09/14/2023 | ND | 195 | 97.4 | 200 | 2.16 | |
| **DRO >C10-C28*** | **54.0** | 10.0 | 09/14/2023 | ND | 201 | 100 | 200 | 1.87 | |
| **EXT DRO >C28-C36** | **15.0** | 10.0 | 09/14/2023 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *120 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *143 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Notes and Definitions

| | |
|---|---|
| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. |
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | |
|---|---|
| Company Name: Tetra Tech | **BILL TO** |
| Project Manager: Sam Abbott | P.O. #: |
| Address: 8911 Capital o Texas Hwy, Suite 2310 | Company: Tetra Tech |
| City: Austin State: TX Zip: | Attn: Sam Abbott |
| Phone #: (512)565-0190 Fax #: | Address: EMAIL |
| Project #: 212C-MD-03162 Project Owner: ConocoPhillips | City: |
| Project Name: Windward Federal Com #001H Flowline Release | State: Zip: |
| Project Location: Lea County, New Mexico | Phone #: |
| Sampler Name: Colton Bickerstaff | Fax #: |

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | TPH 8015M | BTEX 8021B | Chloride SM4500CI-B | | | | | | | | | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H234938-1 | BH-1 (0-1') | G | 1 | | | X | | | | | X | | 9/12/2023 | | X | X | X | | | | | | | | | |
| 2 | BH-1 (2'-3') | G | 1 | | | X | | | | | X | | 9/12/2023 | | X | X | X | | | | | | | | | |
| 3 | BH-1 (4'-5') | G | 1 | | | X | | | | | X | | 9/12/2023 | | X | X | X | | | | | | | | | |
| 4 | BH-1 (6'-7') | G | 1 | | | X | | | | | X | | 9/12/2023 | | X | X | X | | | | | | | | | |
| 5 | BH-1 (8'-9') | G | 1 | | | X | | | | | X | | 9/12/2023 | | X | X | X | | | | | | | | | |
| 6 | BH-1 (9'-10') | G | 1 | | | X | | | | | X | | 9/12/2023 | | X | X | X | | | | | | | | | |
| 7 | BH-1 (12'-13') | G | 1 | | | X | | | | | X | | 9/12/2023 | | X | X | X | | | | | | | | | |
| 8 | BH-1 (14'-15') | G | 1 | | | X | | | | | X | | 9/12/2023 | | X | X | X | | | | | | | | | |
| 9 | BH-1 (19'-20') | G | 1 | | | X | | | | | X | | 9/12/2023 | | X | X | X | | | | | | | | | X |
| 10 | BH-1 (24'-25') | G | 1 | | | X | | | | | X | | 9/12/2023 | | X | X | X | | | | | | | | | X |



| | | | |
|---|---|---|---|
| Relinquished By: Colton Bickerstaff | Date: 9/13/23 Time: 13:00 | Received By: | Verbal Result: ☐ Yes ☐ No Add'l Phone #: |
| | | | All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com |
| Relinquished By: | Date: Time: | Received By: | REMARKS: PLEASE *HOLD* 19'-20' & 24'-25' samples |

| | | | | |
|---|---|---|---|---|
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | Observed Temp. °C 1.0 Corrected Temp. °C 1.0 | Sample Condition: Cool: Yes / Intact: Yes; No / No | CHECKED BY: (Initials) | Turnaround Time: Standard ✱ Bacteria (only) Sample Condition<br>Rush: N/A, Standard TAT ☐ Cool Intact Observed Temp. °C<br>Thermometer ID #140 (#113)<br>Correction Factor -0.5°C<br>☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C |

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

# APPENDIX F
# WASTE MANIFEST

Cust[illegible]r Copy

---

-----WEIGHT TICKET-----
Ticket # 199991
Start:10/17/2023 11:35 AM
End:10/17/2023 12:00 PM
By:OWL.Ivan

| GROSS | TARE | NET | PRICE | AMOUNT |
|---|---|---|---|---|
| **Contaminated Soil** | | | | |
| 18 | C0 | 18 | $0.01 | $0.18 |

Hauler: McNabb Partners
Driver: Josh Busby
Lease: Windward Fed
Well: OC1-I
AFE #: N/A
County, State: LEA (NM)
API #: 3002541414
Manifest #: N/A
Client Company Man: Jacob Laird
Rig Name & Number: N/A
Trucking Co Ticket #: N/A
Truck Type: End Dump
UOM: CuYd
UOM Count: 18
PF Test Result: Pass
H2S Test: Pass

| | | | | |
|---|---|---|---|---|
| H2S Testing - PASS | | | | |
| C1 | C0 | 01 | $0.00 | $0.00 |
| Paint Filter - PASS | | | | |
| C1 | C0 | 01 | $0.00 | $0.00 |
| NORM - PASS | | | | |
| C1 | C0 | 01 | $0.00 | $0.00 |
| Additional Photos | | | | |
| C1 | C0 | 01 | $0.00 | $0.00 |
| 22 | | | $0.01 | $0.18 |

SUBTOTAL ----> $0.18
TAX ----> $0.01
ROUNDING ----> $0.00
TOTAL ----> $0.19

Customer: ConocoPhillips Company
Driver: Karen Work
EC/License:

Customer Copy

WEIGHT TICKET

Ticket # 200002
Start:10/17/2023 01:29 PM
End:10/17/2023 01:39 PM
B/:OWL.Ivan

| | GROSS | TARE | NET | PRICE | AMOUNT |
|---|---|---|---|---|---|
| Contaminated Soil | | | | | |
| C1 | 18 | C0 | 18 | $0.01 | $0.18 |

Hauler: McNabb Partners
Driver: Josh Busby
Lease: Windward Fed
Well: OC1H
AFE #: N/A
County, State: LEA (NM)
API #: 3002541414
Client Company Man: Jacob Laird
Rig Name & Number: N/A
Trucking Co Ticket #: N/A
Truck Type: End Dump
UOM: CuYd
UOM Count: 18
PF Test Result: Pass
H2S Test: Pass

| | | | | |
|---|---|---|---|---|
| H2S Testing - PASS | | | | |
| C1 | C0 | 01 | $0.00 | $0.00 |
| Paint Filter - PASS | | | | |
| C1 | C0 | 01 | $0.00 | $0.00 |
| NORM - PASS | | | | |
| C1 | C0 | 01 | $0.00 | $0.00 |
| Additional Photos | | | | |
| C1 | C0 | 01 | $0.00 | $0.00 |
| 22 | | | $0.01 | $0.18 |

SUBTOTAL ----> $0.18
TAX ----> $0.01
ROUNDING ----> $0.00
TOTAL ----> $0.19

Customer: ConocoPhillips Company
Driver: Karen Work
ID/License:

Customer Copy

------WEIGHT TICKET------
Ticket # 200025
Start:10/17/2023 03:06 PM
End:10/17/2023 03:13 PM
By:owl.leslie

| | GROSS | TARE | NET | PRICE | AMOUNT |
|---|---|---|---|---|---|
| Contaminated Soil | | | | | |
| | 18 | C0 | 18 | $0.01 | $0.18 |

Hauler: McNabb
Driver: Josh Busby
Lease: Windward Federal
Well: 001H
AFE #: N/A
County, State: LEA (NM)
API #: N/A
Manifest #: N/A
Client Company Man: Jacob Laird
Rig Name & Number: N/A
Trucking Co Ticket #: N/A
Truck Type: End Dump/ M-80
UOM: CuYd
UOM Count: 18
PF Test Result: Pass
H2S Test: Pass

| | | | | |
|---|---|---|---|---|
| H2S Testing - PASS | | | | |
| C1 | C0 | 01 | $0.00 | $0.00 |
| Paint Filter - PASS | | | | |
| C1 | C0 | 01 | $0.00 | $0.00 |
| NORM - PASS | | | | |
| C1 | C0 | 01 | $0.00 | $0.00 |
| Additional Photos | | | | |
| C1 | C0 | 01 | $0.00 | $0.00 |
| 22 | | | $0.01 | $0.18 |

SUBTOTAL ----> $0.18
TAX ----> $0.01
ROUNDING ----> $0.00
TOTAL ----> $0.19

Customer: ConocoPhillips Company
Driver: Karen Work
ID/License:

Customer Copy

-----WEIGHT TICKET-----

Ticket # 200164

Start:10/18/2023 11:06 AM

End:10/18/2023 11:14 AM

By:owl.geraldine

| | GROSS | TARE | NET | PRICE | AMOUNT |
|---|---|---|---|---|---|
| Contaminated Soil | | | | | |
| | 18 | CO | 18 | $0.01 | $0.18 |

Hauler: McNabb Partners
Driver: Josh Busby
Lease: Windward Fed
Well: 001H
AFE #: N/A
County, State: LEA (NM)
API #: 3002541414
Client Company Man: Jacob Laird
Rig Name & Number: N/A
Trucking Co Ticket #: N/A
Truck Type: End Dump
UOM: CuYd
UOM Count: 18
PF Test Result: Pass
H2S Test: Pass

| | | | | |
|---|---|---|---|---|
| H2S Testing - PASS | | | | |
| C1 | CO | 01 | $0.00 | $0.00 |
| Paint Filter - PASS | | | | |
| C1 | CO | 01 | $0.00 | $0.00 |
| NORM - PASS | | | | |
| C1 | CO | 01 | $0.00 | $0.00 |
| Additional Photos | | | | |
| C1 | CO | 01 | $0.00 | $0.00 |
| 22 | | | $0.01 | $0.18 |

SUBTOTAL ----> $0.18
TAX ----> $0.01
ROUNDING ----> $0.00
TOTAL ----> $0.19

Customer: ConocoPhillips Company
Driver: Karen Work
ID/License:

Customer Copy

-------WEIGHT TICKET------

Ticket # 200180

Start:10/18/2023 12:40 PM

End:10/18/2023 12:49 PM

By:OWL.Ivan

| | GROSS | TARE | NET | PRICE | AMOUNT |
|---|---|---|---|---|---|
| Contaminated Soil | | | | | |
| | 18 | CO | 18 | $0.01 | $0.18 |

Hauler: McNabb Partners
Driver: Josh Busby
Lease: Windward Fed
Well: 0C1H
AFE #: N/A
County, State: LEA (NM)
API #: 3002541414
Client Company Man: Jacob Laird
Rig Name & Number: N/A
Trucking Co Ticket #: N/A
Truck Type: End Dump
UOM: CuYd
UOM Count: 18
PF Test Result: Pass
H2S Test: Pass

| | | | | |
|---|---|---|---|---|
| H2S Testing - PASS | | | | |
| C1 | CO | 01 | $0.00 | $0.00 |
| Paint Filter - PASS | | | | |
| C1 | CO | 01 | $0.00 | $0.00 |
| NORM - PASS | | | | |
| C1 | CO | 01 | $0.00 | $0.00 |
| Additional Photos | | | | |
| C1 | CO | 01 | $0.00 | $0.00 |
| 22 | | | $0.01 | $0.18 |

SUBTOTAL ----> $0.18
TAX ----> $0.01
ROUNDING ----> $0.00
TOTAL ----> $0.19

Customer: ConocoPhillips Company
Driver: Karen Work
ID/License:

Customer Copy

---

-----WEIGHT TICKET-----

Ticket # 200196

Start:10/18/2023 02:10 PM

End:10/18/2023 02:10 PM

By:OWL.Ivan

| GROSS | TARE | NET | PRICE | AMOUNT |
|---|---|---|---|---|
| Contaminated Soil | | | | |
| 18 | CO | 18 | $0.01 | $0.18 |

Hauler: McNabb Partners
Driver: Josh Busby
Lease: Windward Fed
Well: 001H
AFE #: N/A
County, State: LEA (NM)
API #: 3002541414
Client Company Man: Jacob Laird
Rig Name & Number: N/A
Trucking Co Ticket #: N/A
Truck Type: End Dump
UOM: CuYd
UOM Count: 18
PF Test Result: Pass
H2S Test: Pass

| | | | | |
|---|---|---|---|---|
| H2S Testing - PASS | | | | |
| C1 | CO | 01 | $0.00 | $0.00 |
| Paint Filter - PASS | | | | |
| C1 | CO | 01 | $0.00 | $0.00 |
| NORM - PASS | | | | |
| C1 | CO | 01 | $0.00 | $0.00 |
| Additional Photos | | | | |
| C1 | CO | 01 | $0.00 | $0.00 |
| 22 | | | $0.01 | $0.18 |

SUBTOTAL ----> $0.18
TAX ----> $0.01
ROUNDING ----> $0.00
TOTAL ----> $0.19

---

Customer: ConocoPhillips Company
Driver: Karen Work
ID/License:

---

**District I**
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
**District II**
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 288337

## CONDITIONS

| | |
|---|---|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137 |
| | Action Number:<br>288337 |
| | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| scott.rodgers | None | 1/12/2024 |