



April 12, 2022

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

**Re: Release Characterization and Remediation Work Plan  
ConocoPhillips  
EVGSAU 3440-002 Flowline Release  
Unit Letter K, Section 34, Township 17 South, Range 35 East  
Lea County, New Mexico  
Incident ID NAPP2129936218**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COP) to assess a release that occurred from the flowline associated with the East Vacuum Grayburg San Andres Unit (EVGSAU) 3440-002 well (Associated API No. 30-025-03008). The release footprint is located in Public Land Survey System (PLSS) Unit Letter K, Section 34, Township 17 South, Range 35 East, Lea County, New Mexico (Site). The release site coordinates are 32.789948°, -103.44811°. The Site location is shown on Figures 1 and 2.

## BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on October 12, 2021. The release occurred as the result of a flowline failure due to corrosion. A previous release had occurred in the area. The released fluids were partially contained within the existing remediation excavation for a prior 2020 release. Approximately 7 barrels (bbls) of crude oil and 128 bbls of produced water were released, of which approximately 0 bbls of crude oil and 0 bbls of produced water were recovered. The New Mexico Oil Conservation District (NMOCD) received and approved the C-141 report form for the release on October 26, 2021. The NMOCD Incident ID for the release is NAPP2129936218.

As mentioned, a portion of the release associated with incident ID NAPP2129936218 occurred within an excavated area related to an earlier release which occurred on January 2, 2020. The January 2020 release (incident ID NRH2003532478) footprint was excavated to depths ranging from 1 to 3 feet below ground surface (bgs). A separate Release Characterization and Remediation Work Plan addressing incident ID NRH2003532478 will be submitted to the NMOCD via the fee application portal. With like correspondence from NMOCD, COP proposes to remediate both releases concurrently.

## SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). The Site is within a New Mexico oil and gas production area and is in an area of low karst potential.

Tetra Tech

901 West Wall St., Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

According to the New Mexico Office of the State Engineer (NMOSE) reporting system, there are eight water well within ½ mile (800 meters) of the Site. The wells have an average depth to groundwater of 60 feet bgs. The site characterization data is included in Appendix B.

## 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 chloride in soil.

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

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 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 RRALs for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

## INITIAL RESPONSE

In accordance with 19.15.29.8.B.(4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, COP elected to begin remediation of the impacted area in 2021. Under the guidance of COP, McNabb Partners removed approximately 6 inches of visually impacted material from the entire release footprint, where accessible. Approximately 218 cubic yards of material was removed and properly disposed. Waste manifests are included in Appendix C.

In response to the January 2020 release, the western portion of the 2020 release footprint was excavated to a depth of 3 feet bgs, and the eastern portion was excavated to 1-foot bgs. Approximately 256 cubic yards of material was removed and properly disposed. Approximate release extent and initial response extents are shown in Figure 3.

## SITE ASSESSMENT ACTIVITIES

Tetra Tech personnel were onsite to delineate and sample the release area footprint on February 16 and 17, 2022, returning on March 8, 2022. A total of seventeen (17) borings (BH-22-01 through BH-22-17) were installed to define the extents of the release and to assess the extent of impacted soil. BH-22-01 through BH-22-06 were installed within the release footprint to delineate the vertical extent of impacted soil. BH-22-07 through BH-22-17 were installed around the perimeter of the release footprint to delineate the horizontal extent of impacted soil. Soil boring logs from the February and March 2022 assessment activities are included as Appendix D. The boring locations are shown on Figure 4.

A total of fifty-five (55) soil samples were collected from the 17 boring locations. These samples were submitted Cardinal Laboratories (Cardinal) to be analyzed for Total Petroleum Hydrocarbons (TPH) via Method 8015 Modified, chloride via Method SM4500Cl-B, and benzene, toluene, ethylbenzene and xylenes

(BTEX) via Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

## SUMMARY OF SAMPLING RESULTS

Results from the February and March 2022 soil sampling event are summarized in Table 1. Analytical results associated with borings BH-22-01 through BH-22-08 exceeded the reclamation requirements for chloride (600 mg/kg) and/or TPH (100 mg/kg) in soils to a depth of 3 feet below surrounding grade. All other analytical results were below reclamation requirements and Site RRALs. After review of analytical results from the sampling event, both horizontal and vertical delineation was achieved during the February and March 2022 assessment activities. Photographic documentation from the site assessment activities is included in Appendix F.

## REMEDIATION WORK PLAN

Based on the analytical results from the site assessment, COP proposes to remove impacted material within the release extent as shown in Figure 5. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 4 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the Site RRALs and reclamation requirements for soils above 4 feet bgs. Heavy equipment will come no more than 4 ft from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines which intersect the release footprint will be dug by hand to 4 feet or the maximum extent practicable.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chloride. Once results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 2,400 cubic yards.

## ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 6. Twenty-five (25) confirmation floor samples and thirty-four (34) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 18,500 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 square feet of excavated area. Confirmation samples will be sent to an accredited laboratory for analysis of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (USEPA Method 300.0/4500.0). Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade.

## REVEGETATION PLAN

The backfilled areas will be seeded in Spring 2022 (first favorable growing season) to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one

Release Characterization and Remediation Work Plan  
April 12, 2022

ConocoPhillips

growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix G.

## CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 120 days of NMOCD plan approval. A separate Remediation Work Plan for incident ID NRH2003532478 will be submitted simultaneously with this Remediation Work Plan for incident ID NAPP2129936218. As the release footprints coincide and the remediation work plans are nearly identical, should this Work Plan gain NMOCD approval alongside the NRH2003532478 Work Plan, COP requests the opportunity to remediate both release extents concurrently.

If this is acceptable, upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD for each release incident. If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 217-7254 or Christian at (512) 338-2861.

Sincerely,  
**Tetra Tech, Inc.**



Ryan C. Dickerson  
Project Manager



Christian M, Llull, P.G.  
Program Manager

cc:  
Mr. Sam Widmer, RMR – ConocoPhillips



**List of Attachments**

Figures:

- Figure 1 – Site Location Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Initial Response
- Figure 4 – Approximate Release Extent and Soil Assessment
- Figure 5 – Proposed Remediation Extents
- Figure 6 – Alternative Confirmation Sampling Plan

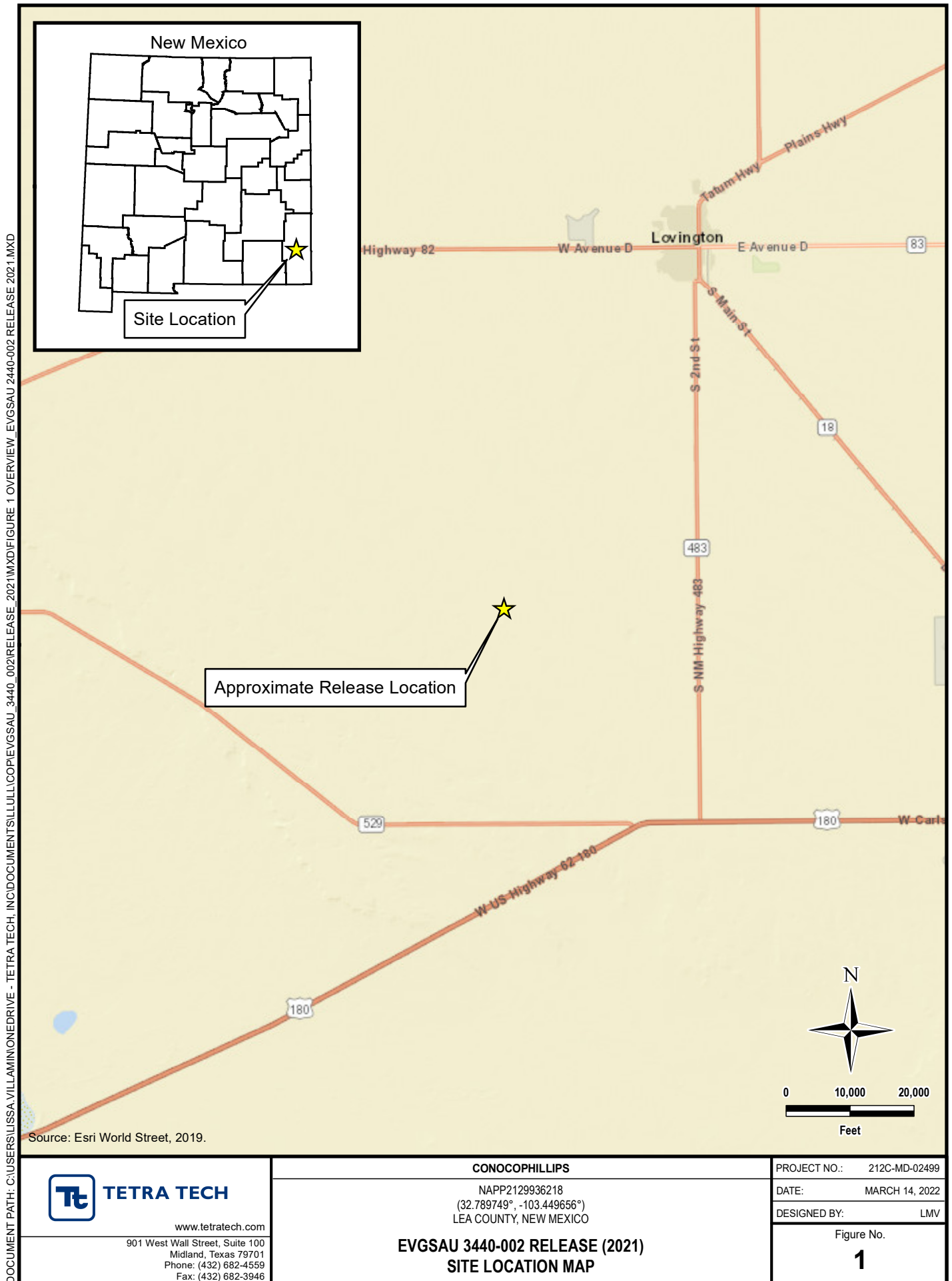
Tables:

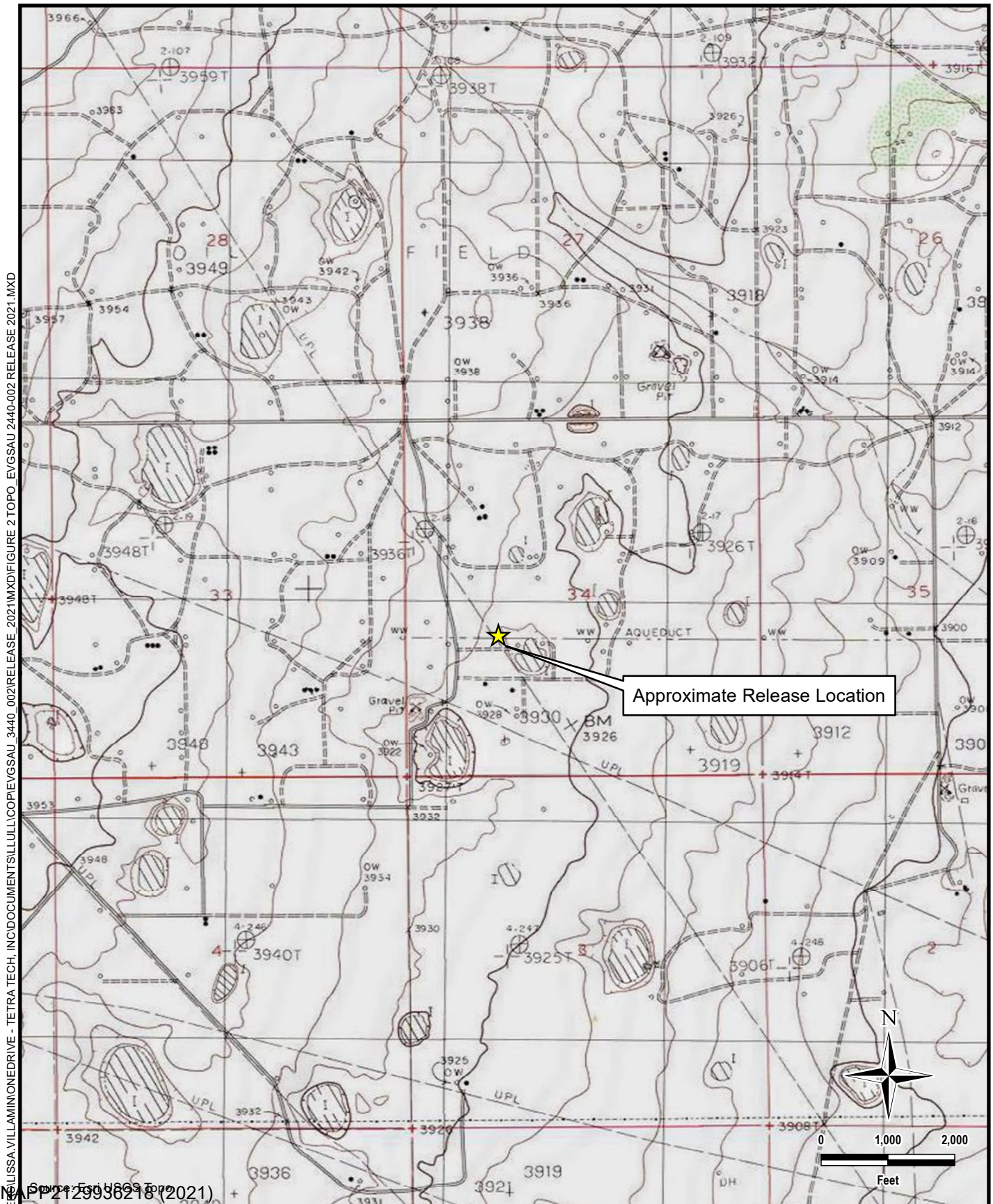
- Table 1 – Summary of Analytical Results – Soil Assessment

Appendices:

- Appendix A – C-141 Form
- Appendix B – Site Characterization Data
- Appendix C – Waste Manifests
- Appendix D – Soil Boring Logs
- Appendix E – Laboratory Analytical Data
- Appendix F – Photographic Documentation
- Appendix G – NMSLO Seed Mixture Details

## **FIGURES**





**TETRA TECH**

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**CONOCOPHILLIPS**

NAPP2129936218  
(32.789749°, -103.449656°)  
LEA COUNTY, NEW MEXICO

**EVGSAU 3440-002 RELEASE (2021)  
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-02499

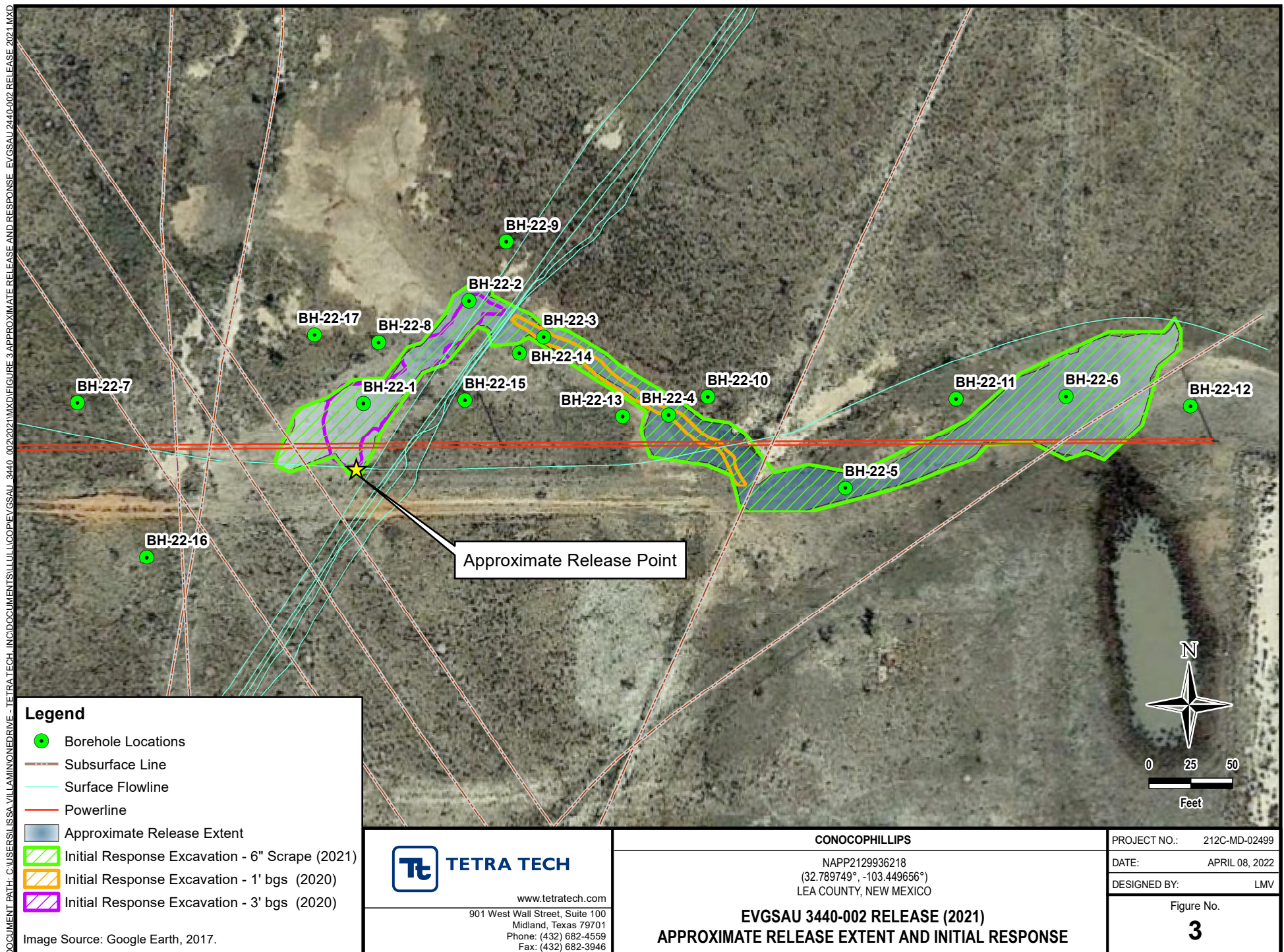
DATE: MARCH 14, 2022

DESIGNED BY: LMV

Figure No.

**2**

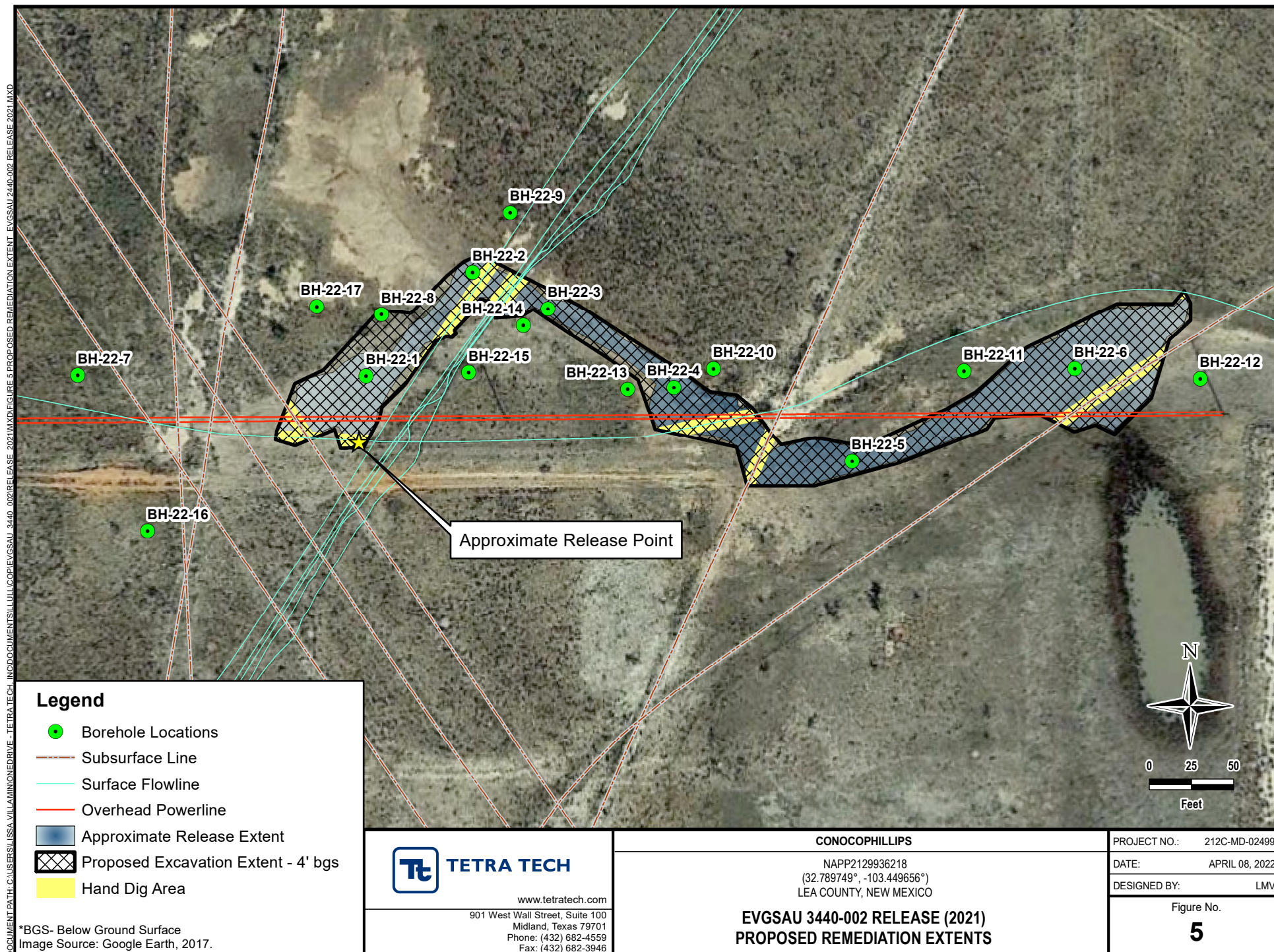




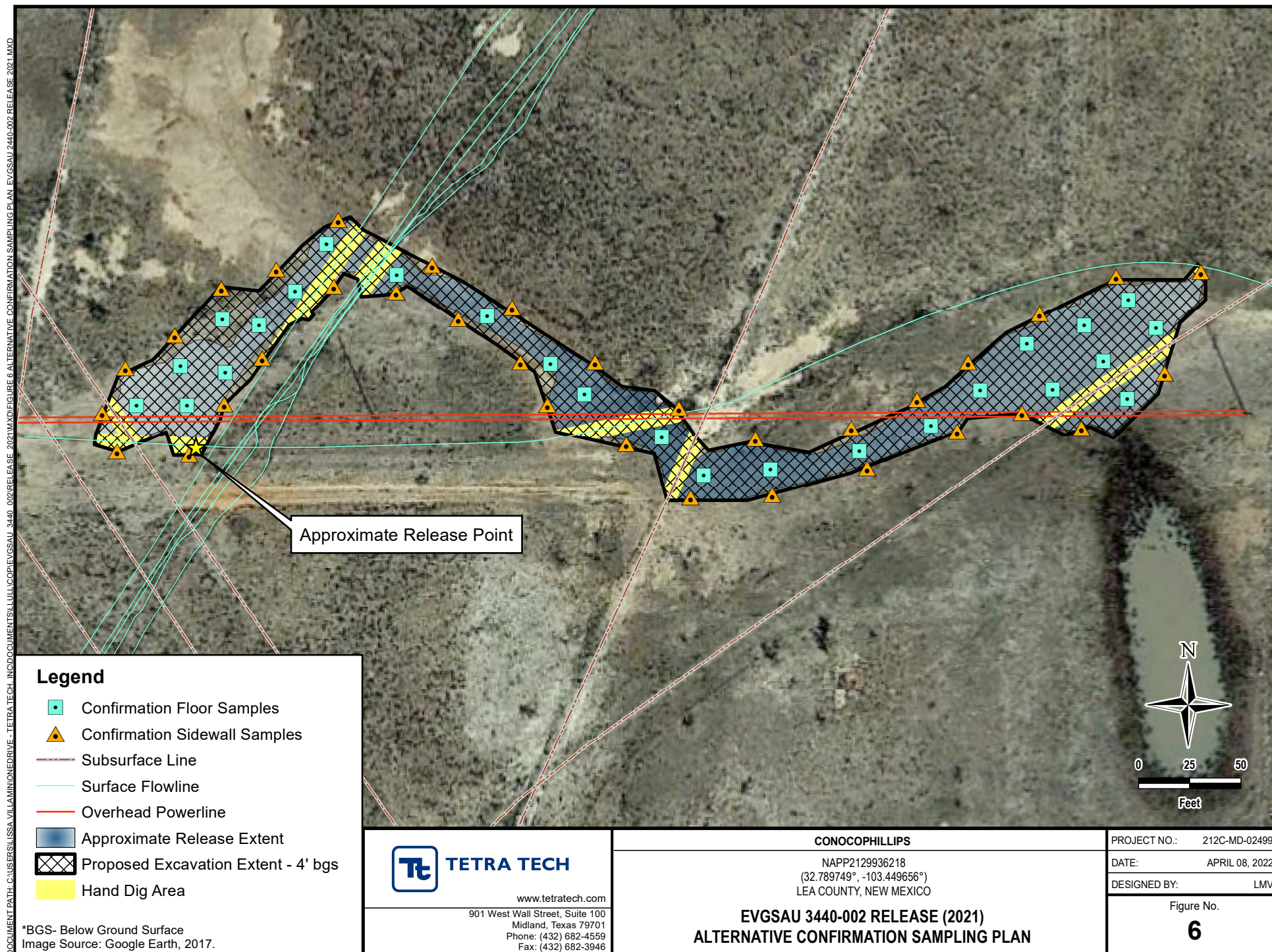












## **TABLES**

TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
SOIL ASSESSMENT -  
2021 RELEASE - NAPP2129936218  
CONOCOPHILLIPS  
EVGSAU 3440-002 FLOWLINE RELEASES

Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C <sub>6</sub> - C <sub>10</sub>	Q	> C <sub>10</sub> - C <sub>28</sub>	Q	> C <sub>28</sub> - C <sub>36</sub>	Q	
BH-22-01	2/17/2022	2-3	4,960		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	3,360		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	2,200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	976		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	608		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		19-20	1,020	QM-07	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		24-25	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		29-30	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-02	2/16/2022	2-3	1,920		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		11.3		436		88.3		536
		4-5	2,200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		378		76.2		454
		6-7	1,810		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		15.9		661		136		813
		9-10	2,000		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		94.0		10.8		105
		14-15	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		19-20	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-03	2/17/2022	2-3	3,800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		134		19.1		153
		4-5	352		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	1,480		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	1,680		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	256		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		19-20	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-04	2/17/2022	2-3	1,800		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	560		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-05	2/16/2022	0-1	2,760	QM-07	< 0.200		1.08		15.0		33.2		49.2		1,540		12,900		2,110		16,550
		2-3	1,880		< 0.050		< 0.050		0.169		0.402		0.571		41.6		1,340		272		1,654
		4-5	1,180		< 0.050		< 0.050		0.099		0.311		0.410		39.3		1,440		270		1,749
		6-7	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		93.7		< 10.0		93.7
		19-20	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-06	2/16/2022	0-1	8,480		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		764		166		930
		2-3	4,480		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		96.3		16.7		113
		4-5	3,360		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	2,640		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		14-15	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		19-20	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-07	2/16/2022	0-1	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

TABLE 1  
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SOIL ASSESSMENT -  
2021 RELEASE - NAPP2129936218  
CONOCOPHILLIPS  
EVGSAU 3440-002 FLOWLINE RELEASES

Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C <sub>6</sub> - C <sub>10</sub>	Q	> C <sub>10</sub> - C <sub>28</sub>	Q	> C <sub>28</sub> - C <sub>36</sub>	Q	
BH-22-08	2/16/2022	0-1	<b>992</b>		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3	<b>1,650</b>		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		4-5	1,150		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		6-7	1,010		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		9-10	768		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-09	2/16/2022	0-1	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-10	2/17/2022	0-1	< 16.0		< 0.050		0.064		0.215		0.442		0.720		12.6		16.7		< 10.0		29.3
BH-22-11	2/17/2022	0-1	48.0		< 0.050		0.085		0.198		0.414		0.697		< 10.0		11.6		< 10.0		11.6
BH-22-12	2/17/2022	0-1	80.0		< 0.050		0.059		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-13	2/17/2022	0-1	48.0		< 0.050		0.058		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-14	2/17/2022	0-1	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-15	2/17/2022	0-1	32.0		< 0.050		0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-16	2/16/2022	0-1	320				< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
BH-22-17	3/8/2022	0-1	48.0		< 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 Reclamation Requirements.***

Shaded rows indicate intervals proposed for excavation.

## QUALIFIERS:

QM-07 Spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

## **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	ConocoPhillips	OGRID
Contact Name	Kelsy Waggaman	Contact Telephone (432) 688 - 9057
Contact email	Kelsy.Waggaman@ConocoPhillips.com	Incident # (assigned by OCD) NAPP2129936218
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701	

### Location of Release Source

Latitude 32.789948 Longitude -103.44811  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	EVGSAU 3440-002	Site Type	Flowline
Date Release Discovered	October 12, 2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
K	34	17S	35E	Lea

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)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 7	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 128	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

The release was caused by a flowline failure due to corrosion.  
The release was in the pasture. A vacuum truck was dispatched to remove all freestanding fluids.  
Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.



Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? <b>The volume released was greater than 25 barrels.</b>
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? <b>Immediate notice was given by Kelsy Waggaman via e-mail October 13, 2021 at 7:48 am to ocd.enviro@state.nm.us.</b>	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <b>Brittany N. Esparza</b>	Title: <b>Environmental Technician</b>
Signature: 	Date: <b>10/26/2021</b>
email: <b>Brittany.Esparza@ConocoPhillips.com</b>	Telephone: <b>(432) 221-0398</b>
<b><u>OCD Only</u></b>	
Received by: <b>Ramona Marcus</b>	Date: <b>11/1/2021</b>



Release Date & Time: 7:00 A.M. 10/12/21									
Release Type: Oil Mixture									
NAPP2129936218									
Provide any known details about the event: 2 in flowline leak causing a leak of produced water and produced oil to spill off pad. MSO isolated leak by closing flowline valve at wellhead and at header. Vac. Truck 70 bbls recovered.									
Spill Calculation - Subsurface Spill - Rectangle									
Was the release on pad or off-pad?				On Pad - 10.5%; Off Pad - 15.12% soil spilled-fluid saturation factor					
Has it rained at least a half inch in the last 24 hours?				Yes, On Pad - 8%; Off Pad - 13.57% soil spilled-fluid saturation factor; if No, use factors above.					
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	165.0	48.0	1.00	15.12%	117.480	17.763	5.00%	0.888	16.875
Rectangle B	219.0	23.0	1.00	15.12%	74.716	11.297	5.00%	0.565	10.732
Rectangle C	303.0	12.0	3.00	15.12%	161.802	24.464	5.00%	1.223	23.241
Rectangle D					0.000	0.000	0.00%	0.000	0.000
Rectangle E					0.000	0.000	0.00%	0.000	0.000
Rectangle F					0.000	0.000		0.000	0.000
Rectangle G					0.000	0.000		0.000	0.000
Rectangle H					0.000	0.000		0.000	0.000
Rectangle I					0.000	0.000		0.000	0.000
Rectangle J					0.000	0.000		0.000	0.000
Total Volume Release:						53.524		2.676	50.848

**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 57922

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 57922
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
marcus	None	11/1/2021

Incident ID	NAPP2129936218
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?	60 _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

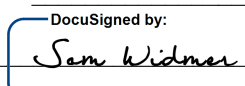
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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.

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	NAPP2129936218
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: Sam widmer Title: Principal Program Manager  
Signature:  Date: Apr-12-2022  
email: Sam.widmer@conocophillips.com Telephone: 281-206-5298

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NAPP2129936218
District RP	
Facility ID	
Application ID	

## Remediation Plan

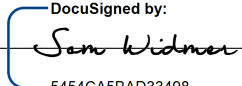
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.


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: Sam widmer Title: Principal Program Manager  
Signature:  Date: Apr-12-2022  
email: Sam.widmer@conocophillips.com Telephone: 281-206-5298

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 05/17/2022

## **APPENDIX B**

### **Site Characterization Data**



# 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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">L_04775</a>		L	LE	4	1	34	17S	35E		645365	3629421*	422	133	68	65
<a href="#">L_04727</a>		L	LE			34	17S	35E		645576	3629214*	434	120	45	75
<a href="#">L_04793</a>		L	LE			34	17S	35E		645576	3629214*	434	150	50	100
<a href="#">L_04618</a>		L	LE	3	3	34	17S	35E		644973	3628611*	477	128	55	73
<a href="#">L_05834 POD6</a>		L	LE	1	1	4	34	17S	35E	645673	3629122*	501	234	65	169
<a href="#">L_05834</a>	R	L	LE	2	2	4	33	17S	35E	644663	3629109*	518	160	70	90
<a href="#">L_05834 POD5</a>		L	LE	2	2	4	33	17S	35E	644663	3629109*	518	234	65	169
<a href="#">L_04633</a>		L	LE	2	4	33	17S	35E		644564	3629010*	614	130	65	65

Average Depth to Water: **60 feet**

Minimum Depth: **45 feet**

Maximum Depth: **70 feet**

**Record Count:** 8

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 645177.447

**Northing (Y):** 3629042.152

**Radius:** 800

\*UTM location was derived from PLSS - see Help

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

3/3/22 9:54 AM


WATER COLUMN/ AVERAGE DEPTH TO WATER

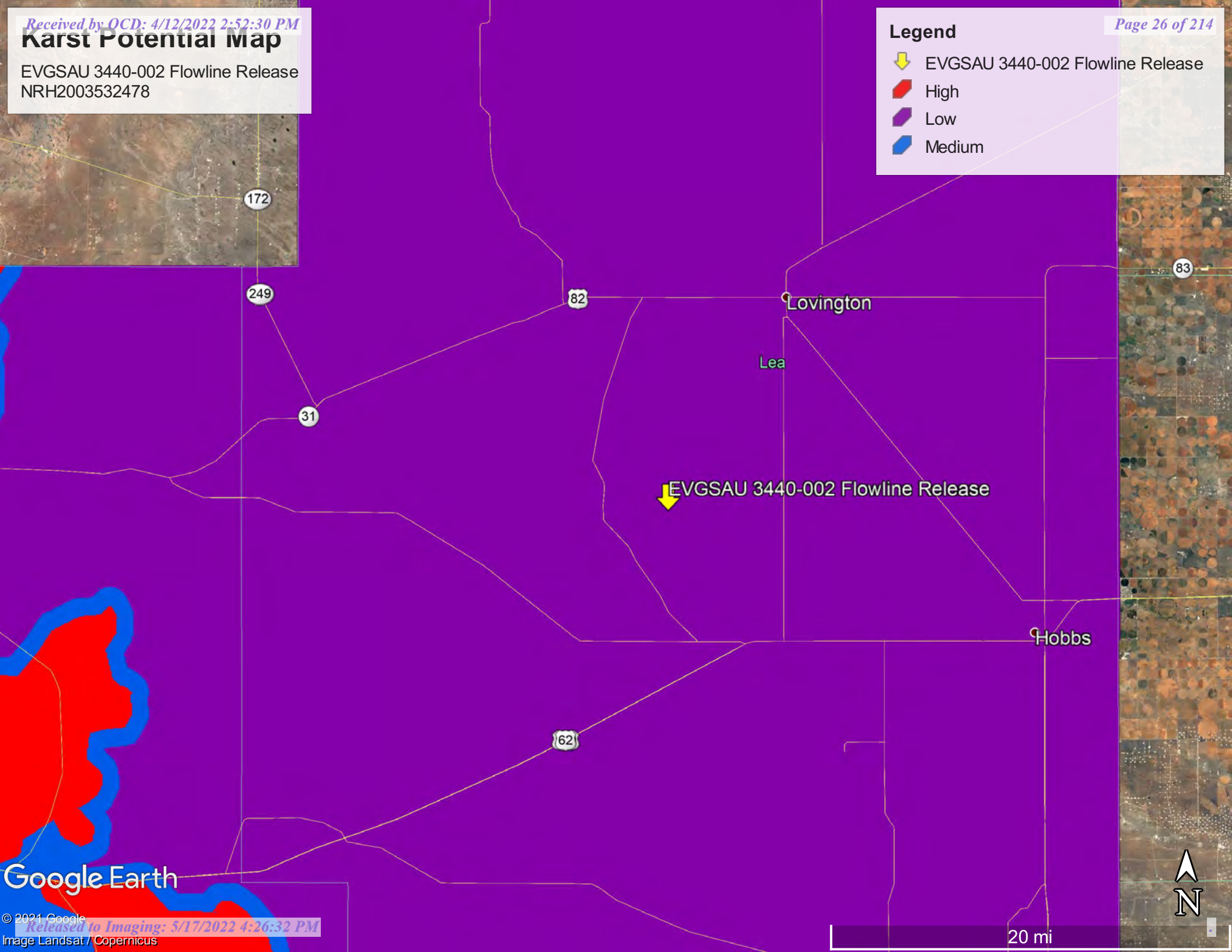


# Karst Potential Map

EVGSAU 3440-002 Flowline Release  
NRH2003532478

## Legend

-  EVGSAU 3440-002 Flowline Release
-  High
-  Low
-  Medium



Google Earth

20 mi

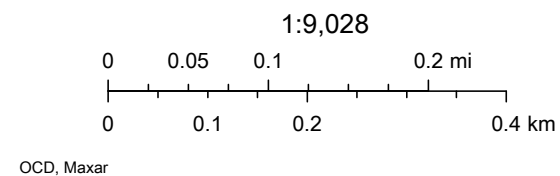


## OCD Water Bodies



2/11/2022, 3:50:20 PM

- ★ OCD District Offices
- PLJV Probable Playas
- OSE Water-bodies
- OSE Streams



## **APPENDIX C**

### **Waste Manifests**



## Invoice


**R360 Environmental Solutions, LLC**  
**Permian Basin Region**

 P.O. Box 3452  
 Hobbs, NM 88241

Date: 10/28/2021  
 Invoice #: C229007  
  
 Terms: Due Upon Receipt  
 Generator: CONOCOPHILLIPS  
 Lease: NORTH VACUUM ABO  
 Well: 3  
 Rig: NON-DRILLING  
 PO:  
 Memo:

**Bill To**  
 CONOCOPHILLIPS  
 P.O. BOX 2200  
 BARTLESVILLE, OK 74005

Item	Qty	Desc	Price	Amount	Ticket	Date	Manifest #	3rd Party #	Co. Man	Trucking Co
Contaminated Soil (RCRA Exempt)	18.00		\$17.00	\$306.00	1244354	10/19/2021	NA		BRENT SWIMMER	MCNABB PARTNERS
Contaminated Soil (RCRA Exempt)	18.00		\$17.00	\$306.00	1244416	10/19/2021	N/A		BRENT SWIMMER	MCNABB PARTNERS
Contaminated Soil (RCRA Exempt)	18.00		\$17.00	\$306.00	1244513	10/19/2021	NA		BRENT SWIMMER	MCNABB PARTNERS
Contaminated Soil (RCRA Exempt)	18.00		\$17.00	\$306.00	1244710	10/20/2021	NA		BRENT SWIMMER	MCNABB PARTNERS
Contaminated Soil (RCRA Exempt)	18.00		\$17.00	\$306.00	1244772	10/20/2021	NA		BRENT SWIMMER	MCNABB PARTNERS
Contaminated Soil (RCRA Exempt)	18.00		\$17.00	\$306.00	1244865	10/20/2021	N/A		BRENT SWIMMER	MCNABB PARTNERS
Contaminated Soil (RCRA Exempt)	18.00		\$17.00	\$306.00	1245086	10/21/2021	NA		BRENT SWIMMER	MCNABB PARTNERS
Contaminated Soil (RCRA Exempt)	20.00		\$17.00	\$340.00	1245094	10/21/2021	N/A		BRENT SWIMMER	MCNABB PARTNERS
Contaminated Soil (RCRA Exempt)	18.00		\$17.00	\$306.00	1245151	10/21/2021	NA		BRENT SWIMMER	MCNABB PARTNERS
Contaminated Soil (RCRA Exempt)	18.00		\$17.00	\$306.00	1245176	10/21/2021	535810		BRENT SWIMMER	MCNABB PARTNERS
Contaminated Soil (RCRA Exempt)	18.00		\$17.00	\$306.00	1245241	10/21/2021	NA		BRENT SWIMMER	MCNABB PARTNERS
Contaminated Soil (RCRA Exempt)	18.00		\$17.00	\$306.00	1245335	10/21/2021	NA		BRENT SWIMMER	MCNABB PARTNERS

**TO AVOID DISRUPTION IN SERVICE, PLEASE PAY IMMEDIATELY**  
**For wire instructions, contact your Account Executive.**

**R360 Environmental Solutions, LLC**  
**Permian Basin Region**P.O. Box 3452  
Hobbs, NM 88241**Bill To**  
CONOCOPHILLIPS  
P.O. BOX 2200  
BARTLESVILLE, OK 74005Please Remit To:  
R360-Permian Basin Region  
P.O.Box 671798  
Dallas, TX 75267-1798  
575-393-1079 (O); 575-393-3615(F)**Date:** 10/28/2021  
**Invoice #:** C229007  
  
**Terms:** Due Upon Receipt  
**Generator:** CONOCOPHILLIPS  
**Lease:** NORTH VACUUM ABO  
**Well:** 3  
**Rig:** NON-DRILLING  
**PO:**  
**Memo:****Subtotal:** \$3,706.00  
**NM Sales Tax:** \$203.83  
**Total:** \$3,909.83**Summary of Products & Services**

Product	Price	Quantity	Unit	Extended Price
Contaminated Soil (RCRA Exempt)	\$17.00	218.00	yards	\$3,706.00
Sales Tax (NM)	\$203.83	1.00	each	\$203.83

**TO AVOID DISRUPTION IN SERVICE, PLEASE PAY IMMEDIATELY**  
**For wire instructions, contact your Account Executive.**

ENVIRONMENTAL  
SOLUTIONS

Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: BRENT SWIMMER  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 10/19/2021  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1244354  
Bid #: O6UJ9A000HH0  
Date: 10/19/2021  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: NORTH VACUUM ABO  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):  
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

I6UJ9A01KQ2A

10/19/2021 8:38:18AM



Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: ZACK LUIKENS  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 10/19/2021  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1244416  
Bid #: O6UJ9A000HH0  
Date: 10/19/2021  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: NORTH VACUUM ABO  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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Driver/Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



ENVIRONMENTAL  
SOLUTIONS

Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: BRENT SWIMMER  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 10/19/2021  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1244513  
Bid #: O6UJ9A000HH0  
Date: 10/19/2021  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: NORTH VACUUM ABO  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

**Generator Certification Statement of Waste Status**

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☐ RCRA Non-Exempt: Oil field waste which is **non-hazardous** that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):  
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

t6UJ9A01KQGE

10/19/2021 1:53:58PM



Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: BRENT SWIMMER  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 10/20/2021  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1244710  
Bid #: O6UJ9A000HH0  
Date: 10/20/2021  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: NORTH VACUUM ABO  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- ☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):  
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

I6UJ9A01KQQG

10/20/2021 8:24:08AM

ENVIRONMENTAL  
SOLUTIONS

Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: BRENT SWIMMER  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 10/20/2021  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1244772  
Bid #: O6UJ9A000HH0  
Date: 10/20/2021  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: NORTH VACUUM ABO  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):  
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

I6UJ9A01KQW0

10/20/2021 10:42:45AM



Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: BRENT SWIMMER  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 10/20/2021  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: 32  
Card #  
Job Ref #

Ticket #: 700-1244865  
Bid #: O6UJ9A000HH0  
Date: 10/20/2021  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: NORTH VACUUM ABO  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- ☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above described waste is non-hazardous. (Check the appropriate items):  
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: BRENT SWIMMER  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 10/21/2021  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1245086  
Bid #: O6UJ9A000HH0  
Date: 10/21/2021  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: NORTH VACUUM ABO  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- ☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):  
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

I6UJ9A01KRCQ

10/21/2021 8:38:20AM



Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: BRENT SWIMMER  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 10/21/2021  
Hauler: MCNABB PARTNERS  
Driver: JOSE  
Truck #: 82  
Card #  
Job Ref #

Ticket #: 700-1245094  
Bid #: O6UJ9A000HH0  
Date: 10/21/2021  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: NORTH VACUUM ABO  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- ☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):  
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

O6UJ9A01KRDA

10/21/2021 8:56:53AM





Permian Basin

Customer: CONOCOPHILLIPS  
 Customer #: CRI2190  
 Ordered by: BRENT SWIMMER  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 10/21/2021  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1245151  
 Bid #: O6UJ9A000HH0  
 Date: 10/21/2021  
 Generator: CONOCOPHILLIPS  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: NORTH VACUUM ABO  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0			3.00			

## Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- ☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
☐ RCRA Non-Exempt: Oil field waste which is **non-hazardous** that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):  
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

t6UJ9A01KRHZ

10/21/2021 10:41:31AM



Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: BRENT SWIMMER  
AFE #:  
PO #:  
Manifest #: 535810  
Manif. Date: 10/21/2021  
Hauler: MCNABB PARTNERS  
Driver: JESSE  
Truck #: M82  
Card #  
Job Ref #

Ticket #: 700-1245176  
Bid #: O6UJ9A000HH0  
Date: 10/21/2021  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: NORTH VACUUM ABO  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):  
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

t6UJ9A01KRJP

10/21/2021 11:40:44AM



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST  
(PLEASE PRINT)

Company Man Contact Information

Name Zac McNabbPhone No. (575) 368-4554

## GENERATOR

NO. 535810

Operator No.

Operator's Name

Conoco Phillips

Address

City, State, Zip

Phone No.

Form/HIC No.

Lease/Vol

Name &amp; No.

County

API No.

Rig Name &amp; No.

API/OC No.

North Vacuum ABO 3Lea3002503008N/A

EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Fluid	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-Injectable)	Washout Water (Injectable)
Water Based Fluid	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☐ PRODUCTION☐ GATHERING LINES

NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCDF), ignitability, Corrosivity and Reactivity.

Non-Exempt Other

\*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

L - LIQUID

18

Y - YARDS

E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)☐ EMERGENCY NON-OILFIELD:

Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

Brent Swimmer10/24/21

SIGNATURE

## TRANSPORTER

Transporter's

Name

McNabb Partners

Address

4008 N Grimes  
Hobbs, NM

Phone No.

Driver's Name

Print Name

Jesse Moreno

Phone No.

(575) 964-5902

Truck No.

M-82

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered with incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

10/24/2021

DELIVERY DATE

DRIVER'S SIGNATURE

Jesse Moreno

TRUCK TIME STAMP

DISPOSAL FACILITY

RECEIVING AREA

IN:

OUT:

Name/No.

50101

Site Name/

Permit No.

Address

Halfway Facility / NM1-006

Phone No.

575 393-1075

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro rontgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

## TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&amp;W/BBLS Received

Free Water

Total Received

BS&amp;W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

LM Fullmer10/21

DATE

AW

TITLE

LM

SIGNATURE

C-138

White - R360 ORIGINAL

Yellow - TRANSPORTER COPY

Pink - GENERATOR SITE COPY

Gold - RETURN TO GENERATOR

Version 1



Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CRI2190  
Ordered by: BRENT SWIMMER  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 10/21/2021  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1245241  
Bid #: O6UJ9A000HH0  
Date: 10/21/2021  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: NORTH VACUUM ABO  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

t6UJ9A01KRMX

10/21/2021 1:43:19PM





Permian Basin

Customer: CONOCOPHILLIPS  
Customer #: CR12190  
Ordered by: BRENT SWIMMER  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 10/21/2021  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1245335  
Bid #: O6UJ9A000HH0  
Date: 10/21/2021  
Generator: CONOCOPHILLIPS  
Generator #:  
Well Ser. #: 999908  
Well Name: NORTH VACUUM ABO  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_


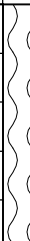


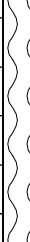

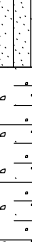
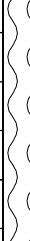

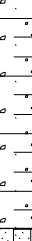
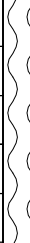


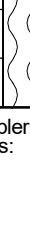
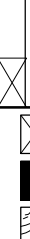
















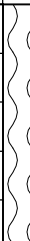


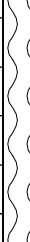

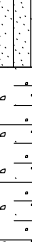
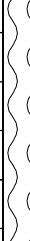

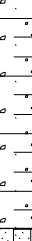
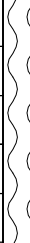


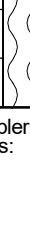
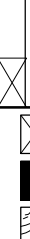

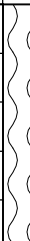


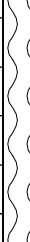

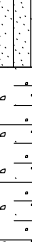
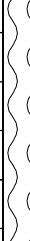

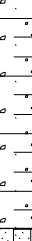
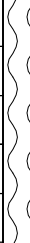


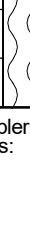
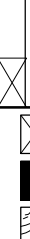

I6UJ9A01KRS9

10/21/2021 4:43:58PM

## **APPENDIX D**

### **Soil Boring Logs**



212C-MD-02499		 TETRA TECH		LOG OF BORING BH-22-1				Page 1 of 2																																																																																																																				
Project Name: EVGSAU 3440-002 Flowline Release																																																																																																																												
Borehole Location: GPS: 32.789856°, -103.449641°				Surface Elevation: 3931 ft																																																																																																																								
Borehole Number: BH-22-1				Borehole Diameter (in.): 8		Date Started: 2/17/2022		Date Finished: 2/17/2022																																																																																																																				
<div><div><div>DEPTH (ft)</div><div>OPERATION TYPE</div><div>SAMPLE</div><div>CHLORIDE FIELD SCREENING (ppm)</div><div>VOC FIELD SCREENING (ppm)</div><div>SAMPLE RECOVERY (%)</div><div>MOISTURE CONTENT (%)</div><div>DRY DENSITY (pcf)</div><div>LIQUID LIMIT</div><div>PLASTICITY INDEX</div><div>MINUS NO. 200 (%)</div><div>GRAPHIC LOG</div></div><div><div>WATER LEVEL OBSERVATIONS</div><div>While Drilling <math>\nabla</math> DRY ft Upon Completion of Drilling <math>\nabla</math> DRY ft</div><div>Remarks:</div><div><div>MATERIAL DESCRIPTION</div><div>DEPTH (ft)</div><div>REMARKS</div></div></div></div> <table><tr><td rowspan="5">5</td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td>-- Previously excavated during initial response activities.</td><td>2</td><td rowspan="5">BH-22-1 (2'-3')</td></tr><tr><td>-SM- SILTY SAND: Brown, loose, with clay, dry.</td><td>3</td></tr><tr><td>-SM- SILTY SAND: Tan, moderately cemented, moderate gravel.</td><td>4</td></tr><tr><td></td><td>5</td></tr><tr><td></td><td>6</td></tr><tr><td rowspan="5">10</td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td>-SM- CALICHE: Tan, dense, heavily cemented, with gravel.</td><td>7</td><td>BH-22-1 (4'-5')</td></tr><tr><td></td><td>8</td></tr><tr><td></td><td>9</td></tr><tr><td></td><td>10</td></tr><tr><td></td><td>11</td></tr><tr><td rowspan="5">15</td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td></td><td>12</td><td>BH-22-1 (6'-7')</td></tr><tr><td></td><td>13</td></tr><tr><td></td><td>14</td></tr><tr><td></td><td>15</td></tr><tr><td></td><td>16</td></tr><tr><td rowspan="5">20</td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td>-SM- SILTY SAND: Tan, dense, moderately cemented, dry.</td><td>17</td><td>BH-22-1 (9'-10')</td></tr><tr><td></td><td>18</td></tr><tr><td></td><td>19</td></tr><tr><td></td><td>20</td></tr><tr><td></td><td>21</td></tr><tr><td rowspan="5">25</td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td></td><td>22</td><td>BH-22-1 (14'-15')</td></tr><tr><td></td><td>23</td></tr><tr><td></td><td>24</td></tr><tr><td></td><td>25</td></tr><tr><td></td><td>26</td></tr></table> <div><div><div><div> Split Spoon</div><div> Shelby</div><div> Bulk Sample</div><div> Grab Sample</div></div><div><div> Acetate Liner</div><div> Vane Shear</div><div> Discrete Sample</div><div> Test Pit</div></div></div><div><div>Operation Types:</div><div><div> Mud Rotary</div><div> Continuous Flight Auger</div><div> Wash Rotary</div></div><div><div> Hand Auger</div><div> Air Rotary</div><div> Direct Push</div><div> Core Barrel</div></div></div><div>Notes: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.</div></div> <div><div>Logger: Joe Tyler</div><div>Drilling Equipment: Air Rotary</div><div>Driller: Scarborough Drilling</div></div>										5												-- Previously excavated during initial response activities.	2	BH-22-1 (2'-3')	-SM- SILTY SAND: Brown, loose, with clay, dry.	3	-SM- SILTY SAND: Tan, moderately cemented, moderate gravel.	4		5		6	10												-SM- CALICHE: Tan, dense, heavily cemented, with gravel.	7	BH-22-1 (4'-5')		8		9		10		11	15													12	BH-22-1 (6'-7')		13		14		15		16	20												-SM- SILTY SAND: Tan, dense, moderately cemented, dry.	17	BH-22-1 (9'-10')		18		19		20		21	25													22	BH-22-1 (14'-15')		23		24		25		26
5																									-- Previously excavated during initial response activities.	2	BH-22-1 (2'-3')																																																																																																	
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212C-MD-02499		<b>TETRA TECH</b>		<b>LOG OF BORING BH-22-1</b>				Page 2 of 2						
Project Name: EVGSAU 3440-002 Flowline Release														
Borehole Location: GPS: 32.789856°, -103.449641°				Surface Elevation: 3931 ft										
Borehole Number: BH-22-1				Borehole Diameter (in.): 8		Date Started: 2/17/2022		Date Finished: 2/17/2022						
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft Remarks:		
			ExStik	PID					LL			PI	MATERIAL DESCRIPTION	DEPTH (ft)
30	[Symbol]	[Symbol]											30	BH-22-1 (29'-30')
Bottom of borehole at 30.0 feet.														
<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Split Spoon</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; background-color: black; margin-right: 5px;"></div> <div>Shelby</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Bulk Sample</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Grab Sample</div> </div> </div> <div style="width: 50%;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Acetate Liner</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Vane Shear</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Discrete Sample</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Test Pit</div> </div> </div> </div>		<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Mud Rotary</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Continuous Flight Auger</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Wash Rotary</div> </div> </div> <div style="width: 50%;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Hand Auger</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Air Rotary</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Direct Push</div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px;"></div> <div>Core Barrel</div> </div> </div> </div>		<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.										
Logger: Joe Tyler					Drilling Equipment: Air Rotary					Driller: Scarborough Drilling				

212C-MD-02499		<b>TETRA TECH</b>		<b>LOG OF BORING BH-22-2</b>				Page 1 of 1	
Project Name: EVGSAU 3440-002 Flowline Release									
Borehole Location: GPS: 32.790023°, -103.449434°					Surface Elevation: 3929 ft				
Borehole Number: BH-22-2				Borehole Diameter (in.): 8		Date Started: 2/16/2022		Date Finished: 2/16/2022	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS				
												While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft				
												Remarks:				
												DEPTH (ft)	REMARKS			
												-- Previously excavated during initial response activities.				
												-SM- SILTY SAND: Brown, loose, with clay, dry.			2	BH-22-2 (2'-3')
											3					
												-SM- SILTY SAND: Tan, moderately cemented, moderate gravel.				BH-22-2 (4'-5')
5											7					
												-SM- CALICHE: Tan, dense, heavily cemented, with gravel.				BH-22-2 (6'-7')
10																
												-SM- CALICHE: Tan, dense, heavily cemented, with gravel.				BH-22-2 (9'-10')
												-SM- CALICHE: Tan, dense, heavily cemented, with gravel.				BH-22-2 (14'-15')
15																
												-SM- SILTY SAND: Tan, dense, moderately cemented, dry.			16	BH-22-2 (19'-20')
20																

Bottom of borehole at 20.0 feet.

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Split Spoon  <input type="checkbox"/> Shelby  <input type="checkbox"/> Bulk Sample  <input type="checkbox"/> Grab Sample         </div> <div style="width: 50%;"> <input type="checkbox"/> Acetate Liner  <input type="checkbox"/> Vane Shear  <input type="checkbox"/> Discrete Sample  <input type="checkbox"/> Test Pit         </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Mud Rotary  <input type="checkbox"/> Continuous Flight Auger  <input type="checkbox"/> Wash Rotary         </div> <div style="width: 50%;"> <input type="checkbox"/> Hand Auger  <input type="checkbox"/> Air Rotary  <input type="checkbox"/> Direct Push  <input type="checkbox"/> Core Barrel         </div> </div>	Notes: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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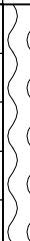


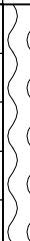


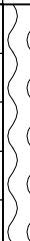

















212C-MD-02499		<b>TETRA TECH</b>		<b>LOG OF BORING BH-22-3</b>				Page 1 of 1	
Project Name: EVGSAU 3440-002 Flowline Release									
Borehole Location: GPS: 32.789962°, -103.449290°					Surface Elevation: 3928 ft				
Borehole Number: BH-22-3				Borehole Diameter (in.): 8		Date Started: 2/17/2022		Date Finished: 2/17/2022	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS				
												While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft Remarks:				
MATERIAL DESCRIPTION												DEPTH (ft)	REMARKS			
5	Wavy line pattern	X pattern										-- Previously excavated during initial response activities.			2	BH-22-3 (2'-3')  BH-22-3 (4'-5')  BH-22-3 (6'-7')  BH-22-3 (9'-10')  BH-22-3 (14'-15')  BH-22-3 (19'-20')
															3	
												-SM- SILTY SAND: Brown, loose, with clay, dry.				
10	Wavy line pattern	X pattern										-SM- CALICHE: Tan, dense, heavily cemented, with gravel.				
15	Wavy line pattern	X pattern										-SM- SILTY SAND: Tan, dense, moderately cemented, dry.			16	
20	Wavy line pattern	X pattern													20	

Bottom of borehole at 20.0 feet.

Sampler Types: Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear Discrete Sample Test Pit	Operation Types: Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	Notes: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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212C-MD-02499		 TETRA TECH		LOG OF BORING BH-22-4			Page 1 of 1																																																										
Project Name: EVGSAU 3440-002 Flowline Release																																																																	
Borehole Location: GPS: 32.789833°, -103.449048°				Surface Elevation: 3928 ft																																																													
Borehole Number: BH-22-4				Borehole Diameter (in.): 8		Date Started: 2/17/2022		Date Finished: 2/17/2022																																																									
<div>WATER LEVEL OBSERVATIONS</div> <div>While Drilling <span>▽</span> <u>DRY</u> ft    Upon Completion of Drilling <span>▽</span> <u>DRY</u> ft</div> <div>Remarks:</div>																																																																	
<table><thead><tr><th rowspan="2">DEPTH (ft)</th><th rowspan="2">OPERATION TYPE</th><th rowspan="2">SAMPLE</th><th>CHLORIDE FIELD SCREENING (ppm)</th><th>VOC FIELD SCREENING (ppm)</th><th rowspan="2">SAMPLE RECOVERY (%)</th><th rowspan="2">MOISTURE CONTENT (%)</th><th rowspan="2">DRY DENSITY (pcf)</th><th>LIQUID LIMIT</th><th>PLASTICITY INDEX</th><th rowspan="2">MINUS NO. 200 (%)</th><th rowspan="2">GRAPHIC LOG</th><th rowspan="2">MATERIAL DESCRIPTION</th><th rowspan="2">DEPTH (ft)</th><th rowspan="2">REMARKS</th></tr><tr><th>ExStik</th><th>PID</th><th>LL</th><th>PI</th></tr></thead><tbody><tr><td rowspan="5">5</td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5"></td><td>-- Previously excavated during initial response activities.</td><td>2</td><td rowspan="5">BH-22-4 (2'-3')  BH-22-4 (4'-5')  BH-22-4 (6'-7')  BH-22-4 (9'-10')</td></tr><tr><td>-SM- SILTY SAND: Brown, loose, with clay, dry.</td><td>3</td></tr><tr><td>-SM- CALICHE: Tan, dense, heavily cemented, with gravel.</td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>10</td><td></td></tr></tbody></table>									DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS	ExStik	PID	LL	PI	5												-- Previously excavated during initial response activities.	2	BH-22-4 (2'-3')  BH-22-4 (4'-5')  BH-22-4 (6'-7')  BH-22-4 (9'-10')	-SM- SILTY SAND: Brown, loose, with clay, dry.	3	-SM- CALICHE: Tan, dense, heavily cemented, with gravel.						10													10	
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT				PLASTICITY INDEX	MINUS NO. 200 (%)				GRAPHIC LOG	MATERIAL DESCRIPTION						DEPTH (ft)	REMARKS																																								
			ExStik	PID				LL	PI																																																								
5												-- Previously excavated during initial response activities.	2	BH-22-4 (2'-3')  BH-22-4 (4'-5')  BH-22-4 (6'-7')  BH-22-4 (9'-10')																																																			
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10													10																																																				
Bottom of borehole at 10.0 feet.																																																																	
<div><div><div>Sampler Types:</div><div> Split Spoon</div><div> Shelby</div><div> Bulk Sample</div><div> Grab Sample</div><div> Acetate Liner</div><div> Vane Shear</div><div> Discrete Sample</div><div> Test Pit</div></div><div><div>Operation Types:</div><div> Mud Rotary</div><div> Continuous Flight Auger</div><div> Wash Rotary</div><div> Hand Auger</div><div> Air Rotary</div><div> Direct Push</div><div> Core Barrel</div></div></div> <div>Notes: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.</div>																																																																	
Logger: Joe Tyler			Drilling Equipment: Air Rotary			Driller: Scarborough Drilling																																																											

212C-MD-02499		<b>TETRA TECH</b>		<b>LOG OF BORING BH-22-5</b>				Page 1 of 1	
Project Name: EVGSAU 3440-002 Flowline Release									
Borehole Location: GPS: 32.789710°, -103.448706°				Surface Elevation: 3925 ft					
Borehole Number: BH-22-5				Borehole Diameter (in.): 8		Date Started: 2/16/2022		Date Finished: 2/16/2022	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft			
												Remarks:			
MATERIAL DESCRIPTION												DEPTH (ft)	REMARKS		
5	Wavy line pattern	X										-SM- SILTY SAND: Brown, loose, with clay, dry.		3	BH-22-5 (0'-1')
															BH-22-5 (2'-3')
															BH-22-5 (4'-5')
															BH-22-5 (6'-7')
															BH-22-5 (9'-10')
10	Wavy line pattern	X										-SM- CALICHE: Tan, dense, heavily cemented, with gravel.			BH-22-5 (14'-15')
15	Wavy line pattern	X										-SM- SILTY SAND: Tan, dense, moderately cemented, dry.		16	
20	Wavy line pattern	X												20	BH-22-5 (19'-20')

Bottom of borehole at 20.0 feet.

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Split Spoon  <input type="checkbox"/> Shelby  <input type="checkbox"/> Bulk Sample  <input checked="" type="checkbox"/> Grab Sample         </div> <div style="width: 50%;"> <input type="checkbox"/> Acetate Liner  <input type="checkbox"/> Vane Shear  <input checked="" type="checkbox"/> Discrete Sample  <input type="checkbox"/> Test Pit         </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Mud Rotary  <input type="checkbox"/> Continuous Flight Auger  <input type="checkbox"/> Wash Rotary         </div> <div style="width: 50%;"> <input type="checkbox"/> Hand Auger  <input type="checkbox"/> Air Rotary  <input type="checkbox"/> Direct Push  <input checked="" type="checkbox"/> Core Barrel         </div> </div>	Notes: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
---	---	--

Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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212C-MD-02499		<b>TETRA TECH</b>		<b>LOG OF BORING BH-22-6</b>				Page 1 of 1	
Project Name: EVGSAU 3440-002 Flowline Release									
Borehole Location: GPS: 32.789858°, -103.448276°					Surface Elevation: 3925 ft				
Borehole Number: BH-22-6				Borehole Diameter (in.): 8		Date Started: 2/16/2022		Date Finished: 2/16/2022	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft Remarks:			
												MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS	
5	[Symbol]	[Symbol]									[Symbol]	-SM- SILTY SAND: Brown, loose, with clay, dry.		3	BH-22-6 (0'-1')
												-SM- CALICHE: Tan, dense, heavily cemented, with gravel.			BH-22-6 (2'-3')
															BH-22-6 (4'-5')
															BH-22-6 (6'-7')
														10	[Symbol]
15	[Symbol]	[Symbol]									[Symbol]				
												20	[Symbol]	[Symbol]	
		Bottom of borehole at 20.0 feet.													

Sampler Types: <input checked="" type="checkbox"/> Split Spoon <input type="checkbox"/> Shelby <input type="checkbox"/> Bulk Sample <input type="checkbox"/> Grab Sample	<input type="checkbox"/> Acetate Liner <input type="checkbox"/> Vane Shear <input checked="" type="checkbox"/> Discrete Sample <input type="checkbox"/> Test Pit	Operation Types: <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Continuous Flight Auger <input type="checkbox"/> Wash Rotary	<input type="checkbox"/> Hand Auger <input type="checkbox"/> Air Rotary <input type="checkbox"/> Direct Push <input type="checkbox"/> Core Barrel	Notes: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
--	---	---	--	--

Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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## **APPENDIX E**

# **Photographic Documentation**

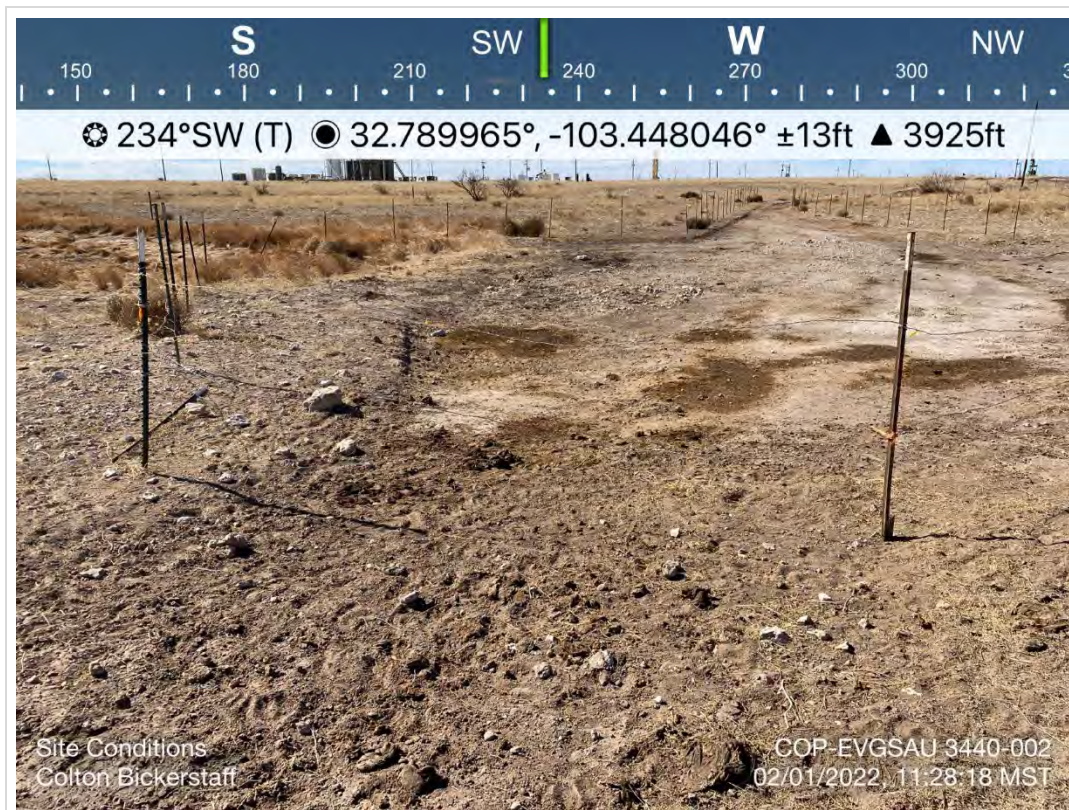


TETRA TECH, INC. PROJECT NO. 212C-MD-02499	DESCRIPTION	View northwest towards pad of the release point and area.	1
	SITE NAME	ConocoPhillips EVGSAU 3440-002	2/1/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02499	DESCRIPTION	View west-northwest, north of nearby pad, east of release extent.	2
	SITE NAME	ConocoPhillips EVGSAU 3440-002	2/1/2022





TETRA TECH, INC. PROJECT NO. 212C-MD-02499	DESCRIPTION	View southwest, eastern edge of release extent.	3
	SITE NAME	ConocoPhillips EVGSAU 3440-002	2/1/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02499	DESCRIPTION	View south-southwest, narrow portion of release extent fenced for safety purposes.	4
	SITE NAME	ConocoPhillips EVGSAU 3440-002	2/1/2022



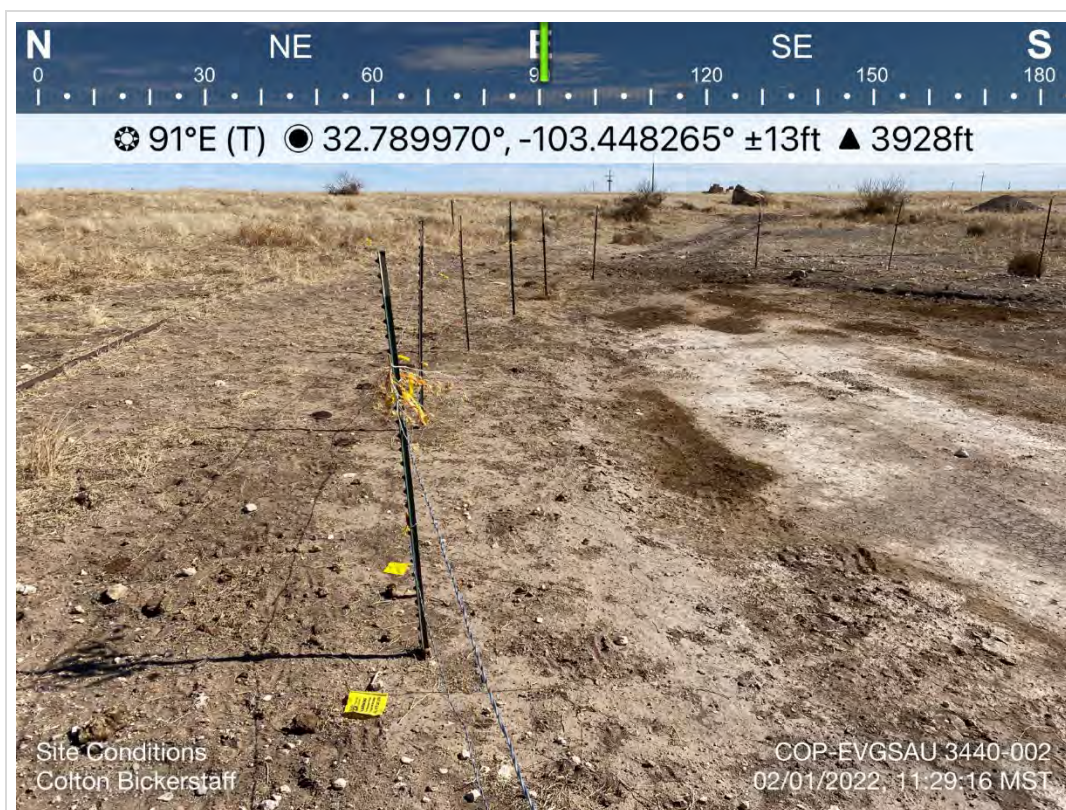


TETRA TECH, INC. PROJECT NO. 212C-MD-02499	DESCRIPTION	View west-northwest, central portion of release extent.	5
	SITE NAME	ConocoPhillips EVGSAU 3440-002	2/1/2022

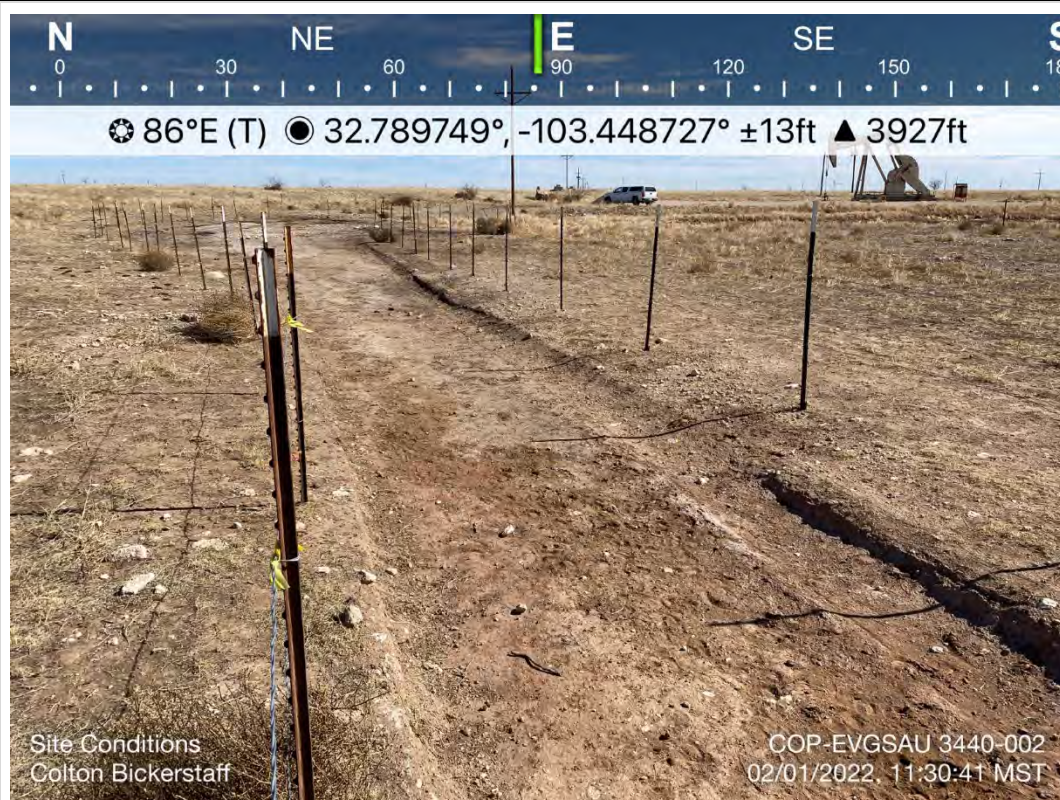


TETRA TECH, INC. PROJECT NO. 212C-MD-02499	DESCRIPTION	View south-southwest, western portion of release extent.	6
	SITE NAME	ConocoPhillips EVGSAU 3440-002	2/1/2022





TETRA TECH, INC. PROJECT NO. 212C-MD-02499	DESCRIPTION	View east of the fenced release area.	7
	SITE NAME	ConocoPhillips EVGSAU 3440-002	2/1/2022

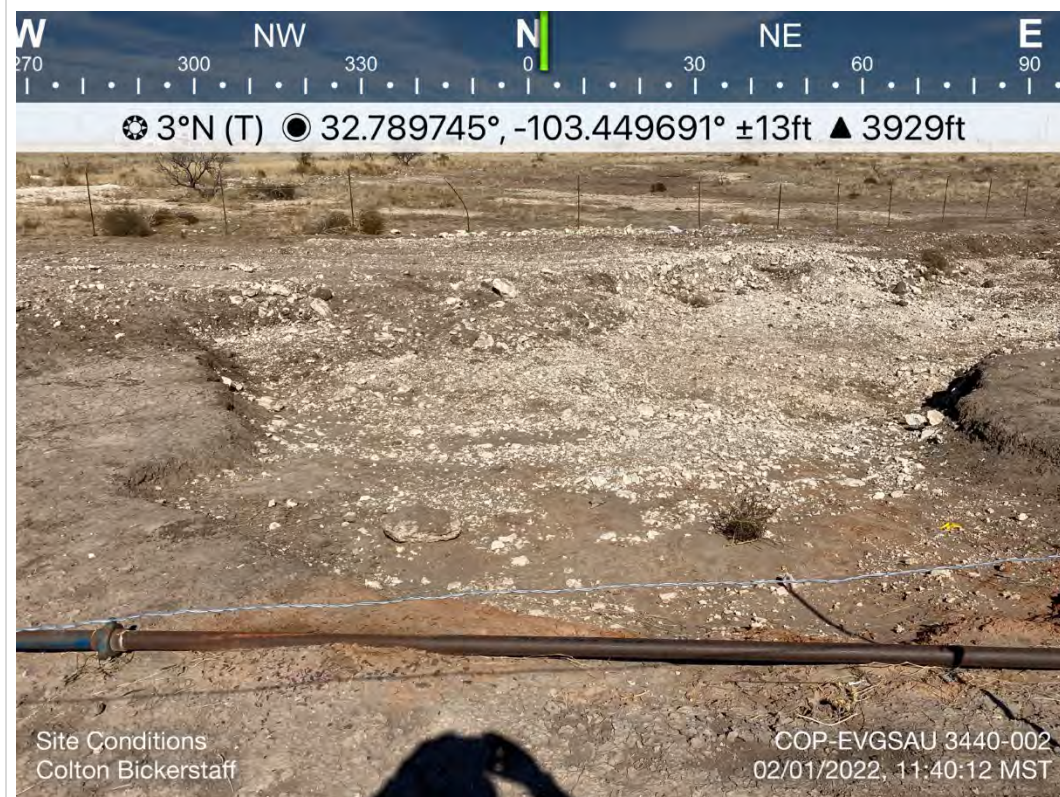


TETRA TECH, INC. PROJECT NO. 212C-MD-02499	DESCRIPTION	View east of the release area along fence line.	8
	SITE NAME	ConocoPhillips EVGSAU 3440-002	2/1/2022





TETRA TECH, INC. PROJECT NO. 212C-MD-02499	DESCRIPTION	View west of the release area and surface flowlines.	9
	SITE NAME	ConocoPhillips EVGSAU 3440-002	2/1/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02499	DESCRIPTION	View north of the release area.	10
	SITE NAME	ConocoPhillips EVGSAU 3440-002	2/1/2022

## **APPENDIX E**

### **Laboratory Analytical Data**





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

---

February 26, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU 3440-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/21/22 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 01 ( 2-3 ) (H220658-01)**

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	02/25/2022	ND	2.06	103	2.00	4.38	
Toluene*	<0.050	0.050	02/25/2022	ND	2.05	102	2.00	4.15	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.98	99.1	2.00	3.50	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.17	103	6.00	2.38	
Total BTEX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	02/24/2022	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	188	93.9	200	20.9	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	186	93.1	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.7 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 01 ( 4-5 ) (H220658-02)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2022	ND	2.06	103	2.00	4.38	
Toluene*	<0.050	0.050	02/25/2022	ND	2.05	102	2.00	4.15	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.98	99.1	2.00	3.50	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.17	103	6.00	2.38	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	188	93.9	200	20.9	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	186	93.1	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 98.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 01 ( 6-7 ) (H220658-03)**

BTX 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	02/25/2022	ND	2.06	103	2.00	4.38	
Toluene*	<0.050	0.050	02/25/2022	ND	2.05	102	2.00	4.15	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.98	99.1	2.00	3.50	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.17	103	6.00	2.38	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	188	93.9	200	20.9	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	186	93.1	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 01 ( 9-10 ) (H220658-04)**

BTX 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	02/25/2022	ND	2.06	103	2.00	4.38	
Toluene*	<0.050	0.050	02/25/2022	ND	2.05	102	2.00	4.15	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.98	99.1	2.00	3.50	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.17	103	6.00	2.38	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	02/24/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	188	93.9	200	20.9	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	186	93.1	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.2 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 01 ( 14-15 ) (H220658-05)**

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	02/25/2022	ND	2.06	103	2.00	4.38		
Toluene*	<0.050	0.050	02/25/2022	ND	2.05	102	2.00	4.15		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.98	99.1	2.00	3.50		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.17	103	6.00	2.38		
Total BTEx	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2022	ND	210	105	200	0.703	
DRO >C10-C28*	<10.0	10.0	02/23/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/23/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 01 ( 19-20 ) (H220658-06)**

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	02/25/2022	ND	2.06	103	2.00	4.38		
Toluene*	<0.050	0.050	02/25/2022	ND	2.05	102	2.00	4.15		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.98	99.1	2.00	3.50		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.17	103	6.00	2.38		
Total BTEX	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	02/24/2022	ND	416	104	400	3.77	QM-07	

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	02/23/2022	ND	210	105	200	0.703	
DRO >C10-C28*	<10.0	10.0	02/23/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/23/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 01 ( 24-25 ) (H220658-07)**

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	02/25/2022	ND	2.06	103	2.00	4.38	
Toluene*	<0.050	0.050	02/25/2022	ND	2.05	102	2.00	4.15	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.98	99.1	2.00	3.50	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.17	103	6.00	2.38	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-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	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2022	ND	210	105	200	0.703	
DRO >C10-C28*	<10.0	10.0	02/23/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/23/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 01 ( 29-30 ) (H220658-08)**

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	02/25/2022	ND	2.06	103	2.00	4.38		
Toluene*	<0.050	0.050	02/25/2022	ND	2.05	102	2.00	4.15		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.98	99.1	2.00	3.50		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.17	103	6.00	2.38		
Total BTEx	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-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	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	210	105	200	0.703	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 02 ( 2-3 ) (H220658-09)**

BTX 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	02/25/2022	ND	2.06	103	2.00	4.38		
Toluene*	<0.050	0.050	02/25/2022	ND	2.05	102	2.00	4.15		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.98	99.1	2.00	3.50		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.17	103	6.00	2.38		
Total BTX	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.3	10.0	02/24/2022	ND	210	105	200	0.703	
DRO >C10-C28*	436	10.0	02/24/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	88.3	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 02 ( 4-5 ) (H220658-10)**

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	02/25/2022	ND	2.06	103	2.00	4.38	
Toluene*	<0.050	0.050	02/25/2022	ND	2.05	102	2.00	4.15	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.98	99.1	2.00	3.50	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.17	103	6.00	2.38	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	210	105	200	0.703	
DRO >C10-C28*	378	10.0	02/24/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	76.2	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 02 ( 6-7 ) (H220658-11)**

BTX 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	02/25/2022	ND	2.17	108	2.00	1.65	
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1810	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.9	10.0	02/24/2022	ND	210	105	200	0.703	
DRO >C10-C28*	661	10.0	02/24/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	136	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 02 ( 9-10 ) (H220658-12)**

BTX 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	02/25/2022	ND	2.17	108	2.00	1.65		
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90		
Total BTX	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	210	105	200	0.703	
DRO >C10-C28*	94.0	10.0	02/24/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	10.8	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 02 ( 14-15 ) (H220658-13)**

BTX 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	02/25/2022	ND	2.17	108	2.00	1.65		
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90		
Total BTX	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	210	105	200	0.703	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.1 % 59.5-142

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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 02 ( 19-20 ) (H220658-14)**

BTX 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	02/25/2022	ND	2.17	108	2.00	1.65		
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90		
Total BTX	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	210	105	200	0.703	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 90.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 03 ( 2-3 ) (H220658-15)**

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	02/25/2022	ND	2.17	108	2.00	1.65	
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3800	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	210	105	200	0.703	
DRO >C10-C28*	134	10.0	02/24/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	19.1	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 03 ( 4-5 ) (H220658-16)**

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	02/25/2022	ND	2.17	108	2.00	1.65	
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	210	105	200	0.703	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 03 ( 6-7 ) (H220658-17)**

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	02/25/2022	ND	2.17	108	2.00	1.65	
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1480	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	210	105	200	0.703	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 97.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 03 ( 9-10 ) (H220658-18)**

BTX 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	02/25/2022	ND	2.17	108	2.00	1.65		
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90		
Total BTX	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	210	105	200	0.703	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	248	124	200	0.139	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 96.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 03 ( 14-15 ) (H220658-19)**

BTX 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	02/25/2022	ND	2.17	108	2.00	1.65		
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90		
Total BTX	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 03 ( 19-20 ) (H220658-20)**

BTX 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	02/25/2022	ND	2.17	108	2.00	1.65	
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 78.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 04 ( 2-3 ) (H220658-22)**

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	02/25/2022	ND	2.17	108	2.00	1.65	
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 93.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 04 ( 4-5 ) (H220658-23)**

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	02/25/2022	ND	2.17	108	2.00	1.65	
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 04 ( 6-7 ) (H220658-24)**

BTX 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	02/25/2022	ND	2.17	108	2.00	1.65	
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 04 ( 9-10 ) (H220658-25)**

BTX 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	02/25/2022	ND	2.17	108	2.00	1.65		
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90		
Total BTX	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-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	02/24/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 78.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 05 ( 0-1 ) (H220658-26)**

BTX 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	02/25/2022	ND	2.17	108	2.00	1.65	
Toluene*	1.08	0.200	02/25/2022	ND	2.14	107	2.00	1.65	
Ethylbenzene*	15.0	0.200	02/25/2022	ND	2.14	107	2.00	1.90	
Total Xylenes*	33.2	0.600	02/25/2022	ND	6.58	110	6.00	1.90	
Total BTX	49.2	1.20	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 176 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	02/24/2022	ND	400	100	400	3.92	QM-07

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*	1540	100	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	12900	100	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	2110	100	02/24/2022	ND					

Surrogate: 1-Chlorooctane 606 % 66.9-136

Surrogate: 1-Chlorooctadecane 1310 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 05 ( 2-3 ) (H220658-27)**

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	02/25/2022	ND	2.17	108	2.00	1.65	
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65	
Ethylbenzene*	0.169	0.050	02/25/2022	ND	2.14	107	2.00	1.90	
Total Xylenes*	0.402	0.150	02/25/2022	ND	6.58	110	6.00	1.90	
Total BTEX	0.571	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	02/24/2022	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*	41.6	10.0	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	1340	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	272	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 157 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 05 ( 4-5 ) (H220658-28)**

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	02/25/2022	ND	2.17	108	2.00	1.65	
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65	
Ethylbenzene*	0.099	0.050	02/25/2022	ND	2.14	107	2.00	1.90	
Total Xylenes*	0.311	0.150	02/25/2022	ND	6.58	110	6.00	1.90	
Total BTEX	0.410	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	02/24/2022	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*	39.3	10.0	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	1440	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	270	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 156 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 05 ( 6-7 ) (H220658-29)**

BTX 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	02/25/2022	ND	2.17	108	2.00	1.65	
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/24/2022	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	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 05 ( 9-10 ) (H220658-30)**

BTX 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	02/25/2022	ND	2.17	108	2.00	1.65	
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/24/2022	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	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 05 ( 14-15 ) (H220658-31)**

BTX 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	02/25/2022	ND	2.17	108	2.00	1.65		
Toluene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.65		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.14	107	2.00	1.90		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.58	110	6.00	1.90		
Total BTX	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/24/2022	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	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	93.7	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 05 ( 19-20 ) (H220658-32)**

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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/24/2022	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	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 06 ( 0-1 ) (H220658-33)**

BTX 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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8480	16.0	02/24/2022	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	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	764	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	166	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 133 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 06 ( 2-3 ) (H220658-34)**

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	02/25/2022	ND	2.10	105	2.00	1.92		
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91		
Total BTEx	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	02/24/2022	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	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	96.3	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	16.7	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 97.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 06 ( 4-5 ) (H220658-35)**

BTX 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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	02/24/2022	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	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 82.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.9 % 59.5-142

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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 06 ( 6-7 ) (H220658-36)**

BTX 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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	02/24/2022	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	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.8 % 59.5-142

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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 06 ( 9-10 ) (H220658-37)**

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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTEX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/24/2022	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	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.8 % 59.5-142

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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 06 ( 14-15 ) (H220658-38)**

BTX 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	02/25/2022	ND	2.10	105	2.00	1.92		
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91		
Total BTX	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/24/2022	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	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.9 % 59.5-142

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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 06 ( 19-20 ) (H220658-39)**

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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTEX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/24/2022	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	02/24/2022	ND	166	83.2	200	1.22	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	220	110	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.5 % 59.5-142

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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 07 ( 0-1 ) (H220658-40)**

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	02/25/2022	ND	2.10	105	2.00	1.92		
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91		
Total BTEx	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/24/2022	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	02/24/2022	ND	185	92.3	200	0.528	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 07 ( 2-3 ) (H220658-41)**

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	02/25/2022	ND	2.10	105	2.00	1.92		
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91		
Total BTEx	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/24/2022	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	02/24/2022	ND	185	92.3	200	0.528	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 71.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 07 ( 4-5 ) (H220658-42)**

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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/24/2022	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	02/24/2022	ND	185	92.3	200	0.528	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 08 ( 0-1 ) (H220658-43)**

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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	02/24/2022	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	02/24/2022	ND	185	92.3	200	0.528	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 74.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 09 ( 0-1 ) (H220658-48)**

BTX 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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/24/2022	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	02/24/2022	ND	185	92.3	200	0.528	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 70.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 70.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 10 ( 0-1 ) (H220658-53)**

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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	0.064	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	0.215	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	0.442	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTEx	0.720	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/24/2022	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*	12.6	10.0	02/24/2022	ND	185	92.3	200	0.528	
DRO >C10-C28*	16.7	10.0	02/24/2022	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 11 ( 0-1 ) (H220658-54)**

BTX 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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	0.085	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	0.198	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	0.414	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTX	0.697	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/24/2022	ND	432	108	400	0.00	

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	02/24/2022	ND	185	92.3	200	0.528	
DRO >C10-C28*	11.6	10.0	02/24/2022	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 85.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.5 % 59.5-142

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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 12 ( 0-1 ) (H220658-55)**

BTX 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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	0.059	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-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	02/24/2022	ND	432	108	400	0.00		

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	02/24/2022	ND	185	92.3	200	0.528	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.6 % 59.5-142

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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 13 ( 0-1 ) (H220658-56)**

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	02/25/2022	ND	2.10	105	2.00	1.92		
Toluene*	0.058	0.050	02/25/2022	ND	2.07	104	2.00	1.97		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91		
Total BTEx	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/24/2022	ND	432	108	400	0.00		

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	02/24/2022	ND	185	92.3	200	0.528	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 14 ( 0-1 ) (H220658-57)**

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	02/25/2022	ND	2.10	105	2.00	1.92		
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91		
Total BTEx	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/24/2022	ND	432	108	400	0.00		

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	02/24/2022	ND	185	92.3	200	0.528	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/17/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 15 ( 0-1 ) (H220658-58)**

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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/24/2022	ND	432	108	400	0.00		

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	02/24/2022	ND	185	92.3	200	0.528	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	02/21/2022	Sampling Date:	02/16/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 16 ( 0-1 ) (H220658-59)**

BTX 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	02/25/2022	ND	2.10	105	2.00	1.92	
Toluene*	<0.050	0.050	02/25/2022	ND	2.07	104	2.00	1.97	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	2.04	102	2.00	2.76	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.29	105	6.00	2.91	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	02/24/2022	ND	432	108	400	0.00		

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	02/24/2022	ND	185	92.3	200	0.528	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 75.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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### 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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 01 of 07

<b>Company Name:</b> ConocoPhillips <b>Project Manager:</b> Christian Lull <b>Address:</b> christian.lull@tetratech.com <b>City:</b> State: Zip: <b>Phone #:</b> (512) 338-1667 Fax #: NA <b>Project #:</b> 212C-MD-02499 Project Owner: <b>Project Name:</b> EVGSAU 3440-02 Flowline Release <b>Project Location:</b> Lea County, New Mexico <b>Sampler Name:</b> Joe Tyler		<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Tetra Tech <b>Attn:</b> Christian Lull <b>Address:</b> by email <b>City:</b> <b>State:</b> Zip: <b>Phone #:</b> <b>Fax #:</b>	
<b>FOR LAB USE ONLY</b>			
<b>Lab I.D.</b> H2261658 1 2 3 4 5 6 7 8 9 10	<b>Sample I.D.</b> BH-22-01 (2-3) (4-5) (6-7) (9-10) (14-15) (19-20) (24-25) (29-30) BH-22-02 (2-3) (4-5)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING
			DATE TIME
		TPH BTEX Chlorides Hold	ANALYSIS REQUEST
<b>Relinquished By:</b> <i>de Nye</i> <b>Date:</b> 2-21-22 <b>Time:</b> 1:35 PM <b>Received By:</b> <i>Christian Lull</i> <b>Date:</b> 2-17-22 <b>Time:</b> 2-16-22		Phone Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ Email Results to: <i>Christian (PM)</i>	
<b>Delivered By:</b> (Circle One) 1.6.2 C.O.S. #13 <b>Sampler - UPS - Bus - Other:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: <i>AS</i>	

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 02 of 07

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 03 of 07

[illegible]





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**101 East Marland, Hobbs, NM 88240  
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Page 04 of 07

<b>BILL TO</b>						<b>ANALYSIS REQUEST</b>															
Company Name: ConocoPhillips Project Manager: Christian Lulll Address: christian.lulll@tetrattech.com City: State: Phone #: (512) 338-1667 Fax #: NA Project #: 212C-MD-02499 Project Owner: Project Name: EVGSAU 3440-02 Flowline Release Project Location: Lea County, New Mexico Sampler Name: Joe Tyler									P.O. #: Company: Tetra Tech Attn: Christian Lulll Address: by email City: State: Zip: Phone #: Fax #:												
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING	TPH	BTEX	Chlorides	Hold						
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME					
H220658																					
31	BH-23-05	(4-15)	G	I	X										2-16-22		X	X	X		
32		(4-30)															X				
33	BH-23-06	(0-1)													2-16-22						
34		(2-5)																			
35		(4-5)																			
36		(6-7)																			
37		(9-10)																			
38		(4-15)																			
39		(4-30)																			
40	BH-23-02	(0-1)													2-16-22						

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**Relinquished By:** [Signature] Date: 8-21-22 Received By: [Signature]

**Relinquished By:** [Signature] Date: 8-21-22 Time: 1:35 PM Received By: [Signature]

**Delivered By: (Circle One)** 1.6c ) C-O.S.C Sample Condition Cool Intact Yes No CHECKED BY: (Initials) V-D

**Sampler - UPS - Bus - Other:** 1.1c #13

**Cardinal cannot accept verbal changes. Please fax written changes to (572) 262-2200**





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 05 of 07

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101 East Marland, Hobbs, NM 88240  
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Page 06 of 07

<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>			
Company Name: ConocoPhillips				P.O. #:			
Project Manager: Christian Llull				Company: Tetra Tech			
Address: christian.llull@tetratech.com				Attn: Christian Llull			
City:				State:			
Phone #: (512) 338-1667				Fax #: NA			
Project #: 212C-MD-02499				Project Owner:			
Project Name: EVGSAU 3440-02 Flowline Release				City:			
Project Location: Lea County, New Mexico				State:			
Sampler Name: Joe Tyler				Phone #:			
FOR LAB USE ONLY				Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX	Chlorides	Hold									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:																ICE / COOL	OTHER :
H220658																											
S1	BH-22-09 (6-7)	X																									
S2	BH-22-10 (0-1)	X																									
S3	BH-22-11 (0-1)	X																									
S4	BH-22-12 (0-1)	X																									
S5	BH-22-13 (0-1)	X																									
S6	BH-22-14 (0-1)	X																									
S7	BH-22-15 (0-1)	X																									
S8	BH-22-16 (0-1)	X																									
S9	BH-22-16 (0-1)	X																									
L00	(3-3)	X																									

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Relinquished By: <i>Chester</i>	Date: <i>8/24/22</i>	Received By: <i>Juanita Alvarado</i>	Phone Results: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #: _____
Relinquished By: _____	Date: _____	Received By: _____	Fax Results: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #: _____
Delivered By: (Circle One) <i>UPS - Bus - Other</i>	Date: <i>1/6/22</i>	Time: <i>2:05 PM</i>	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: _____ (Initials)
Cardinal cannot accept verbal changes. Please fax written changes to: (572) 222-2222	Email Results to: <i>PM</i>			





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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March 02, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU 3440-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/21/22 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited 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

Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH - 22 - 01 ( 2-3 )	H220658-01	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 01 ( 4-5 )	H220658-02	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 01 ( 6-7 )	H220658-03	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 01 ( 9-10 )	H220658-04	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 01 ( 14-15 )	H220658-05	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 01 ( 19-20 )	H220658-06	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 01 ( 24-25 )	H220658-07	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 01 ( 29-30 )	H220658-08	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 02 ( 2-3 )	H220658-09	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 02 ( 4-5 )	H220658-10	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 02 ( 6-7 )	H220658-11	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 02 ( 9-10 )	H220658-12	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 02 ( 14-15 )	H220658-13	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 02 ( 19-20 )	H220658-14	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 03 ( 2-3 )	H220658-15	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 03 ( 4-5 )	H220658-16	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 03 ( 6-7 )	H220658-17	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 03 ( 9-10 )	H220658-18	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 03 ( 14-15 )	H220658-19	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 03 ( 19-20 )	H220658-20	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 04 ( 2-3 )	H220658-22	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 04 ( 4-5 )	H220658-23	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 04 ( 6-7 )	H220658-24	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 04 ( 9-10 )	H220658-25	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 05 ( 0-1 )	H220658-26	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 05 ( 2-3 )	H220658-27	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 05 ( 4-5 )	H220658-28	Soil	16-Feb-22 00:00	21-Feb-22 12:35

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

BH - 22 - 05 ( 6-7 )	H220658-29	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 05 ( 9-10 )	H220658-30	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 05 ( 14-15 )	H220658-31	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 05 ( 19-20 )	H220658-32	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 06 ( 0-1 )	H220658-33	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 06 ( 2-3 )	H220658-34	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 06 ( 4-5 )	H220658-35	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 06 ( 6-7 )	H220658-36	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 06 ( 9-10 )	H220658-37	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 06 ( 14-15 )	H220658-38	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 06 ( 19-20 )	H220658-39	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 07 ( 0-1 )	H220658-40	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 07 ( 2-3 )	H220658-41	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 07 ( 4-5 )	H220658-42	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 08 ( 0-1 )	H220658-43	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 08 ( 2-3 )	H220658-44	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 08 ( 4-5 )	H220658-45	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 08 ( 6-7 )	H220658-46	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 08 ( 9-10 )	H220658-47	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 09 ( 0-1 )	H220658-48	Soil	16-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 10 ( 0-1 )	H220658-53	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 11 ( 0-1 )	H220658-54	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 12 ( 0-1 )	H220658-55	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 13 ( 0-1 )	H220658-56	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 14 ( 0-1 )	H220658-57	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 15 ( 0-1 )	H220658-58	Soil	17-Feb-22 00:00	21-Feb-22 12:35
BH - 22 - 16 ( 0-1 )	H220658-59	Soil	16-Feb-22 00:00	21-Feb-22 12:35

03/02/22 - Client added analysis to lab samples -44 thru -47. This is the revised report and will replace the one sent on 02/26/22.

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 01 ( 2-3 )****H220658-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>4960</b>		16.0	mg/kg	4	2022327	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2022323	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	69.9-140			2022323	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2022308	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2022308	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2022308	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane	91.9 %	66.9-136			2022308	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane	97.7 %	59.5-142			2022308	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 01 ( 4-5 )****H220658-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>3360</b>		16.0	mg/kg	4	2022327	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2022323	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	69.9-140			2022323	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2022308	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2022308	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2022308	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane	98.4 %	66.9-136			2022308	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane	104 %	59.5-142			2022308	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 01 ( 6-7 )****H220658-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>2200</b>		16.0	mg/kg	4	2022327	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022323	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %		69.9-140	2022323	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022308	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022308	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022308	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			95.7 %		66.9-136	2022308	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			101 %		59.5-142	2022308	MS	24-Feb-22	8015B	
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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 01 ( 9-10 )****H220658-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>976</b>		16.0	mg/kg	4	2022327	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2022323	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	69.9-140			2022323	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2022308	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2022308	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2022308	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane	91.2 %	66.9-136			2022308	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane	97.2 %	59.5-142			2022308	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 01 ( 14-15 )****H220658-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	608		16.0	mg/kg	4	2022327	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022323	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2022323	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022320	MS	23-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022320	MS	23-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022320	MS	23-Feb-22	8015B	

Surrogate: 1-Chlorooctane			108 %	66.9-136		2022320	MS	23-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			110 %	59.5-142		2022320	MS	23-Feb-22	8015B	
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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 01 ( 19-20 )****H220658-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1020</b>		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	QM-07
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022323	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140 2022323 MS 25-Feb-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022320	MS	23-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022320	MS	23-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022320	MS	23-Feb-22	8015B	

Surrogate: 1-Chlorooctane 106 % 66.9-136 2022320 MS 23-Feb-22 8015B

Surrogate: 1-Chlorooctadecane 108 % 59.5-142 2022320 MS 23-Feb-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 01 ( 24-25 )****H220658-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022323	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2022323	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022320	MS	23-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022320	MS	23-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022320	MS	23-Feb-22	8015B	

Surrogate: 1-Chlorooctane			106 %	66.9-136		2022320	MS	23-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			109 %	59.5-142		2022320	MS	23-Feb-22	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 01 ( 29-30 )****H220658-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022323	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2022323	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			104 %		66.9-136	2022320	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			108 %		59.5-142	2022320	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 02 ( 2-3 )****H220658-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1920</b>		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022323	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	69.9-140		2022323	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>11.3</b>		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>436</b>		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>88.3</b>		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			100 %	66.9-136		2022320	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			119 %	59.5-142		2022320	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 02 ( 4-5 )****H220658-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>2200</b>		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022323	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022323	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		108 %		69.9-140		2022323	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
DRO >C10-C28*	378		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	76.2		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane		90.9 %		66.9-136		2022320	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane		105 %		59.5-142		2022320	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 02 ( 6-7 )****H220658-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1810</b>		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %		69.9-140	2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>15.9</b>		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>661</b>		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>136</b>		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			107 %		66.9-136	2022320	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			128 %		59.5-142	2022320	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 02 ( 9-10 )****H220658-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>2000</b>		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
DRO >C10-C28*	<b>94.0</b>		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<b>10.8</b>		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			98.0 %		66.9-136	2022320	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			103 %		59.5-142	2022320	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 02 ( 14-15 )****H220658-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9-140		2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			92.2 %	66.9-136		2022320	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			92.1 %	59.5-142		2022320	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 02 ( 19-20 )****H220658-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			90.2 %	66.9-136		2022320	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			89.8 %	59.5-142		2022320	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 03 ( 2-3 )****H220658-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>3800</b>		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
DRO >C10-C28*	<b>134</b>		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<b>19.1</b>		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			87.9 %		66.9-136	2022320	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			93.1 %		59.5-142	2022320	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 03 ( 4-5 )****H220658-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>352</b>		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	69.9-140	2022401	MS	25-Feb-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B

Surrogate: 1-Chlorooctane	89.6 %	66.9-136	2022320	MS	24-Feb-22	8015B
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Surrogate: 1-Chlorooctadecane	87.7 %	59.5-142	2022320	MS	24-Feb-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 03 ( 6-7 )****H220658-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1480</b>		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	105 %	69.9-140			2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane	97.8 %	66.9-136			2022320	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane	95.4 %	59.5-142			2022320	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 03 ( 9-10 )****H220658-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1680</b>		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %		69.9-140	2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022320	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			96.2 %		66.9-136	2022320	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			93.5 %		59.5-142	2022320	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 03 ( 14-15 )****H220658-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			82.1 %	66.9-136		2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			83.7 %	59.5-142		2022324	MS	24-Feb-22	8015B	
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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 03 ( 19-20 )****H220658-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			78.8 %	66.9-136		2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			81.8 %	59.5-142		2022324	MS	24-Feb-22	8015B	
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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 04 ( 2-3 )****H220658-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	1800		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			93.3 %	66.9-136		2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			94.9 %	59.5-142		2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 04 ( 4-5 )****H220658-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			87.0 %	66.9-136		2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			89.7 %	59.5-142		2022324	MS	24-Feb-22	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 04 ( 6-7 )****H220658-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>560</b>		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			86.5 %		66.9-136	2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			89.2 %		59.5-142	2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 04 ( 9-10 )****H220658-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	2022427	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			78.7 %		66.9-136	2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			79.4 %		59.5-142	2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 05 ( 0-1 )****H220658-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>2760</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	QM-07
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.200		0.200	mg/kg	200	2022401	MS	25-Feb-22	8021B	
Toluene*	<b>1.08</b>		0.200	mg/kg	200	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<b>15.0</b>		0.200	mg/kg	200	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<b>33.2</b>		0.600	mg/kg	200	2022401	MS	25-Feb-22	8021B	
Total BTEX	<b>49.2</b>		1.20	mg/kg	200	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 176 % 69.9-140 2022401 MS 25-Feb-22 8021B

**Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10*</b>	<b>1540</b>		100	mg/kg	10	2022324	MS	24-Feb-22	8015B	
<b>DRO &gt;C10-C28*</b>	<b>12900</b>		100	mg/kg	10	2022324	MS	24-Feb-22	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>2110</b>		100	mg/kg	10	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane 606 % 66.9-136 2022324 MS 24-Feb-22 8015B

Surrogate: 1-Chlorooctadecane 1310 % 59.5-142 2022324 MS 24-Feb-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 05 ( 2-3 )****H220658-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1880</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<b>0.169</b>		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<b>0.402</b>		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<b>0.571</b>		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	69.9-140		2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<b>41.6</b>		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<b>1340</b>		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<b>272</b>		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			103 %	66.9-136		2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			157 %	59.5-142		2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 05 ( 4-5 )****H220658-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1180</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<b>0.099</b>		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<b>0.311</b>		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<b>0.410</b>		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %	69.9-140		2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<b>39.3</b>		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<b>1440</b>		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<b>270</b>		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			101 %	66.9-136		2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			156 %	59.5-142		2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 05 ( 6-7 )****H220658-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			88.4 %		66.9-136	2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			92.1 %		59.5-142	2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 05 ( 9-10 )****H220658-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			75.5 %	66.9-136		2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			77.0 %	59.5-142		2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 05 ( 14-15 )****H220658-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022401	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022401	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2022401	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	93.7		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			80.3 %	66.9-136		2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			88.0 %	59.5-142		2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 05 ( 19-20 )****H220658-32 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			80.1 %	66.9-136		2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			82.3 %	59.5-142		2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 06 ( 0-1 )****H220658-33 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>8480</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	105 %	69.9-140			2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	764	10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	166	10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane	90.6 %	66.9-136			2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane	133 %	59.5-142			2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 06 ( 2-3 )****H220658-34 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>4480</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<b>96.3</b>		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<b>16.7</b>		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			97.0 %		66.9-136	2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			112 %		59.5-142	2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 06 ( 4-5 )****H220658-35 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	3360		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			82.3 %	66.9-136		2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			84.9 %	59.5-142		2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 06 ( 6-7 )****H220658-36 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>2640</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	69.9-140	2022402	MS	25-Feb-22	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B

Surrogate: 1-Chlorooctane	84.7 %	66.9-136	2022324	MS	24-Feb-22	8015B
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Surrogate: 1-Chlorooctadecane	85.8 %	59.5-142	2022324	MS	24-Feb-22	8015B
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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 06 ( 9-10 )****H220658-37 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %		69.9-140	2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			89.6 %		66.9-136	2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			92.8 %		59.5-142	2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 06 ( 14-15 )****H220658-38 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			82.0 %		66.9-136	2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			86.9 %		59.5-142	2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 06 ( 19-20 )****H220658-39 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022324	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			82.9 %	66.9-136		2022324	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			88.5 %	59.5-142		2022324	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 07 ( 0-1 )****H220658-40 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			76.4 %		66.9-136	2022412	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			78.7 %		59.5-142	2022412	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 07 ( 2-3 )****H220658-41 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			71.1 %	66.9-136		2022412	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			73.7 %	59.5-142		2022412	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 07 ( 4-5 )****H220658-42 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %		69.9-140	2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			89.4 %		66.9-136	2022412	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			92.9 %		59.5-142	2022412	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 08 ( 0-1 )****H220658-43 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>992</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	105 %	69.9-140			2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane	74.3 %	66.9-136			2022412	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane	78.1 %	59.5-142			2022412	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 08 ( 2-3 )****H220658-44 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1650</b>		16.0	mg/kg	4	2030207	GM	02-Mar-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2030116	MS	02-Mar-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030209	MS	02-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030209	MS	02-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030209	MS	02-Mar-22	8015B	

Surrogate: 1-Chlorooctane			116 %		66.9-136	2030209	MS	02-Mar-22	8015B	
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Surrogate: 1-Chlorooctadecane			114 %		59.5-142	2030209	MS	02-Mar-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 08 ( 4-5 )****H220658-45 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1150</b>		16.0	mg/kg	4	2030207	GM	02-Mar-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140 2030116 MS 02-Mar-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030209	MS	02-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030209	MS	02-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030209	MS	02-Mar-22	8015B	

Surrogate: 1-Chlorooctane 120 % 66.9-136 2030209 MS 02-Mar-22 8015B

Surrogate: 1-Chlorooctadecane 118 % 59.5-142 2030209 MS 02-Mar-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 08 ( 6-7 )****H220658-46 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1010</b>		16.0	mg/kg	4	2030207	GM	02-Mar-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140 2030116 MS 02-Mar-22 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030209	MS	02-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030209	MS	02-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030209	MS	02-Mar-22	8015B	

Surrogate: 1-Chlorooctane 122 % 66.9-136 2030209 MS 02-Mar-22 8015B

Surrogate: 1-Chlorooctadecane 120 % 59.5-142 2030209 MS 02-Mar-22 8015B

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 08 ( 9-10 )****H220658-47 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>768</b>		16.0	mg/kg	4	2030207	GM	02-Mar-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2030116	MS	02-Mar-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2030116	MS	02-Mar-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2030116	MS	02-Mar-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2030209	MS	02-Mar-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2030209	MS	02-Mar-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2030209	MS	02-Mar-22	8015B	

Surrogate: 1-Chlorooctane			120 %		66.9-136	2030209	MS	02-Mar-22	8015B	
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Surrogate: 1-Chlorooctadecane			118 %		59.5-142	2030209	MS	02-Mar-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 09 ( 0-1 )****H220658-48 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			70.9 %		66.9-136	2022412	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			70.0 %		59.5-142	2022412	MS	24-Feb-22	8015B	
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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 10 ( 0-1 )****H220658-53 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2022428	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<b>0.064</b>		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<b>0.215</b>		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<b>0.442</b>		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<b>0.720</b>		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<b>12.6</b>		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
DRO >C10-C28*	<b>16.7</b>		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			84.6 %	66.9-136		2022412	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			83.3 %	59.5-142		2022412	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 11 ( 0-1 )****H220658-54 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	2022301	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<b>0.085</b>		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<b>0.198</b>		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<b>0.414</b>		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<b>0.697</b>		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		69.9-140	2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
DRO >C10-C28*	<b>11.6</b>		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			85.5 %		66.9-136	2022412	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			87.5 %		59.5-142	2022412	MS	24-Feb-22	8015B	
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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 12 ( 0-1 )****H220658-55 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	2022301	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
<b>Toluene*</b>	<b>0.059</b>		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %		69.9-140	2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			86.8 %		66.9-136	2022412	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			88.6 %		59.5-142	2022412	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 13 ( 0-1 )****H220658-56 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2022301	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	0.058		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		103 %		69.9-140		2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane		84.6 %		66.9-136		2022412	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane		89.8 %		59.5-142		2022412	MS	24-Feb-22	8015B	
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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 14 ( 0-1 )****H220658-57 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	2022301	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			80.3 %		66.9-136	2022412	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			84.4 %		59.5-142	2022412	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 15 ( 0-1 )****H220658-58 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	2022301	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
<b>Toluene*</b>	<b>0.050</b>		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			76.3 %	66.9-136		2022412	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			79.4 %	59.5-142		2022412	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**BH - 22 - 16 ( 0-1 )****H220658-59 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>320</b>		16.0	mg/kg	4	2022301	AC	24-Feb-22	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2022402	MS	25-Feb-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2022402	MS	25-Feb-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2022402	MS	25-Feb-22	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2022412	MS	24-Feb-22	8015B	

Surrogate: 1-Chlorooctane			75.2 %		66.9-136	2022412	MS	24-Feb-22	8015B	
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Surrogate: 1-Chlorooctadecane			78.2 %		59.5-142	2022412	MS	24-Feb-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2022301 - 1:4 DI Water****Blank (2022301-BLK1)**

Prepared &amp; Analyzed: 23-Feb-22

Chloride	ND	16.0	mg/kg
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**LCS (2022301-BS1)**

Prepared &amp; Analyzed: 23-Feb-22

Chloride	432	16.0	mg/kg	400	108	80-120
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**LCS Dup (2022301-BSD1)**

Prepared &amp; Analyzed: 23-Feb-22

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20
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**Batch 2022327 - 1:4 DI Water****Blank (2022327-BLK1)**

Prepared &amp; Analyzed: 23-Feb-22

Chloride	ND	16.0	mg/kg
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**LCS (2022327-BS1)**

Prepared &amp; Analyzed: 23-Feb-22

Chloride	416	16.0	mg/kg	400	104	80-120
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**LCS Dup (2022327-BSD1)**

Prepared &amp; Analyzed: 23-Feb-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20
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**Batch 2022427 - 1:4 DI Water****Blank (2022427-BLK1)**

Prepared &amp; Analyzed: 24-Feb-22

Chloride	ND	16.0	mg/kg
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**LCS (2022427-BS1)**

Prepared &amp; Analyzed: 24-Feb-22

Chloride	416	16.0	mg/kg	400	104	80-120
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2022427 - 1:4 DI Water****LCS Dup (2022427-BSD1)**

Prepared &amp; Analyzed: 24-Feb-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20
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**Batch 2022428 - 1:4 DI Water****Blank (2022428-BLK1)**

Prepared &amp; Analyzed: 24-Feb-22

Chloride	ND	16.0	mg/kg					
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**LCS (2022428-BS1)**

Prepared &amp; Analyzed: 24-Feb-22

Chloride	400	16.0	mg/kg	400	100	80-120		
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**LCS Dup (2022428-BSD1)**

Prepared &amp; Analyzed: 24-Feb-22

Chloride	416	16.0	mg/kg	400	104	80-120	3.92	20
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**Batch 2030207 - 1:4 DI Water****Blank (2030207-BLK1)**

Prepared &amp; Analyzed: 02-Mar-22

Chloride	ND	16.0	mg/kg					
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**LCS (2030207-BS1)**

Prepared &amp; Analyzed: 02-Mar-22

Chloride	432	16.0	mg/kg	400	108	80-120		
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**LCS Dup (2030207-BSD1)**

Prepared &amp; Analyzed: 02-Mar-22

Chloride	416	16.0	mg/kg	400	104	80-120	3.77	20
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**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
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**Batch 2022323 - Volatiles****Blank (2022323-BLK1)**

Prepared: 23-Feb-22 Analyzed: 25-Feb-22

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)	0.0516		mg/kg	0.0500		103	69.9-140			

**LCS (2022323-BS1)**

Prepared: 23-Feb-22 Analyzed: 25-Feb-22

Benzene	2.06	0.050	mg/kg	2.00		103	83.4-122			
Toluene	2.05	0.050	mg/kg	2.00		102	84.2-126			
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.1	84.2-121			
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89.9-126			
o-Xylene	2.01	0.050	mg/kg	2.00		101	84.3-123			
Total Xylenes	6.17	0.150	mg/kg	6.00		103	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0509		mg/kg	0.0500		102	69.9-140			

**LCS Dup (2022323-BS1)**

Prepared: 23-Feb-22 Analyzed: 25-Feb-22

Benzene	2.16	0.050	mg/kg	2.00		108	83.4-122	4.38	12.6	
Toluene	2.13	0.050	mg/kg	2.00		107	84.2-126	4.15	13.3	
Ethylbenzene	2.05	0.050	mg/kg	2.00		103	84.2-121	3.50	13.9	
m,p-Xylene	4.28	0.100	mg/kg	4.00		107	89.9-126	2.92	13.6	
o-Xylene	2.04	0.050	mg/kg	2.00		102	84.3-123	1.24	14.1	
Total Xylenes	6.31	0.150	mg/kg	6.00		105	89.1-124	2.38	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0500		mg/kg	0.0500		100	69.9-140			

**Batch 2022401 - Volatiles****Blank (2022401-BLK1)**

Prepared: 24-Feb-22 Analyzed: 25-Feb-22

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							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**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
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**Batch 2022401 - Volatiles****Blank (2022401-BLK1)**

Prepared: 24-Feb-22 Analyzed: 25-Feb-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	69.9-140			

**LCS (2022401-BS1)**

Prepared: 24-Feb-22 Analyzed: 25-Feb-22

Benzene	2.17	0.050	mg/kg	2.00		108	83.4-122			
Toluene	2.14	0.050	mg/kg	2.00		107	84.2-126			
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	84.2-121			
m,p-Xylene	4.46	0.100	mg/kg	4.00		111	89.9-126			
o-Xylene	2.13	0.050	mg/kg	2.00		106	84.3-123			
Total Xylenes	6.58	0.150	mg/kg	6.00		110	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	69.9-140			

**LCS Dup (2022401-BS1)**

Prepared: 24-Feb-22 Analyzed: 25-Feb-22

Benzene	2.13	0.050	mg/kg	2.00		107	83.4-122	1.65	12.6	
Toluene	2.10	0.050	mg/kg	2.00		105	84.2-126	1.65	13.3	
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	84.2-121	1.90	13.9	
m,p-Xylene	4.38	0.100	mg/kg	4.00		110	89.9-126	1.78	13.6	
o-Xylene	2.08	0.050	mg/kg	2.00		104	84.3-123	2.16	14.1	
Total Xylenes	6.46	0.150	mg/kg	6.00		108	89.1-124	1.90	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	69.9-140			

**Batch 2022402 - Volatiles****Blank (2022402-BLK1)**

Prepared: 24-Feb-22 Analyzed: 25-Feb-22

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)	0.0518		mg/kg	0.0500		104	69.9-140			

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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2022402 - Volatiles****LCS (2022402-BS1)**

Prepared: 24-Feb-22 Analyzed: 25-Feb-22

Benzene	2.10	0.050	mg/kg	2.00		105	83.4-122		
Toluene	2.07	0.050	mg/kg	2.00		104	84.2-126		
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	84.2-121		
m,p-Xylene	4.27	0.100	mg/kg	4.00		107	89.9-126		
o-Xylene	2.03	0.050	mg/kg	2.00		101	84.3-123		
Total Xylenes	6.29	0.150	mg/kg	6.00		105	89.1-124		

Surrogate: 4-Bromofluorobenzene (PID) 0.0512 mg/kg 0.0500 102 69.9-140

**LCS Dup (2022402-BS1)**

Prepared: 24-Feb-22 Analyzed: 25-Feb-22

Benzene	2.14	0.050	mg/kg	2.00		107	83.4-122	1.92	12.6
Toluene	2.11	0.050	mg/kg	2.00		106	84.2-126	1.97	13.3
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	84.2-121	2.76	13.9
m,p-Xylene	4.38	0.100	mg/kg	4.00		110	89.9-126	2.58	13.6
o-Xylene	2.10	0.050	mg/kg	2.00		105	84.3-123	3.62	14.1
Total Xylenes	6.48	0.150	mg/kg	6.00		108	89.1-124	2.91	13.4

Surrogate: 4-Bromofluorobenzene (PID) 0.0511 mg/kg 0.0500 102 69.9-140

**Batch 2030116 - Volatiles****Blank (2030116-BLK1)**

Prepared: 01-Mar-22 Analyzed: 02-Mar-22

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) 0.0518 mg/kg 0.0500 104 69.9-140

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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2030116 - Volatiles****LCS (2030116-BS1)**

Prepared: 01-Mar-22 Analyzed: 02-Mar-22

Benzene	2.09	0.050	mg/kg	2.00		104	83.4-122		
Toluene	2.08	0.050	mg/kg	2.00		104	84.2-126		
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.8	84.2-121		
m,p-Xylene	4.18	0.100	mg/kg	4.00		105	89.9-126		
o-Xylene	2.02	0.050	mg/kg	2.00		101	84.3-123		
Total Xylenes	6.20	0.150	mg/kg	6.00		103	89.1-124		
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	69.9-140		

**LCS Dup (2030116-BS1)**

Prepared: 01-Mar-22 Analyzed: 02-Mar-22

Benzene	2.09	0.050	mg/kg	2.00		104	83.4-122	0.0321	12.6
Toluene	2.08	0.050	mg/kg	2.00		104	84.2-126	0.0529	13.3
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	84.2-121	0.430	13.9
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89.9-126	0.766	13.6
o-Xylene	1.96	0.050	mg/kg	2.00		97.9	84.3-123	3.04	14.1
Total Xylenes	6.11	0.150	mg/kg	6.00		102	89.1-124	1.50	13.4
Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	69.9-140		

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**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 2022308 - General Prep - Organics****Blank (2022308-BLK1)**

Prepared &amp; Analyzed: 23-Feb-22

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	49.9		mg/kg	50.0		99.8	66.9-136			
Surrogate: 1-Chlorooctadecane	52.9		mg/kg	50.0		106	59.5-142			

**LCS (2022308-BS1)**

Prepared &amp; Analyzed: 23-Feb-22

GRO C6-C10	188	10.0	mg/kg	200		93.9	81.6-129			
DRO >C10-C28	186	10.0	mg/kg	200		93.1	83-129			
Total TPH C6-C28	374	10.0	mg/kg	400		93.5	84.5-127			
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0		112	66.9-136			
Surrogate: 1-Chlorooctadecane	59.4		mg/kg	50.0		119	59.5-142			

**LCS Dup (2022308-BS1)**

Prepared &amp; Analyzed: 23-Feb-22

GRO C6-C10	232	10.0	mg/kg	200		116	81.6-129	20.9	21.4	
DRO >C10-C28	194	10.0	mg/kg	200		96.8	83-129	3.95	17.9	
Total TPH C6-C28	426	10.0	mg/kg	400		106	84.5-127	12.9	17.6	
Surrogate: 1-Chlorooctane	61.3		mg/kg	50.0		123	66.9-136			
Surrogate: 1-Chlorooctadecane	59.9		mg/kg	50.0		120	59.5-142			

**Batch 2022320 - General Prep - Organics****Blank (2022320-BLK1)**

Prepared &amp; Analyzed: 23-Feb-22

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	56.3		mg/kg	50.0		113	66.9-136			
Surrogate: 1-Chlorooctadecane	57.0		mg/kg	50.0		114	59.5-142			

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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**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
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**Batch 2022320 - General Prep - Organics****LCS (2022320-BS1)**

Prepared &amp; Analyzed: 23-Feb-22

GRO C6-C10	210	10.0	mg/kg	200		105	81.6-129			
DRO >C10-C28	248	10.0	mg/kg	200		124	83-129			
Total TPH C6-C28	458	10.0	mg/kg	400		115	84.5-127			
Surrogate: 1-Chlorooctane	60.9		mg/kg	50.0		122	66.9-136			
Surrogate: 1-Chlorooctadecane	61.0		mg/kg	50.0		122	59.5-142			

**LCS Dup (2022320-BS1)**

Prepared &amp; Analyzed: 23-Feb-22

GRO C6-C10	212	10.0	mg/kg	200		106	81.6-129	0.703	21.4	
DRO >C10-C28	248	10.0	mg/kg	200		124	83-129	0.139	17.9	
Total TPH C6-C28	460	10.0	mg/kg	400		115	84.5-127	0.398	17.6	
Surrogate: 1-Chlorooctane	60.1		mg/kg	50.0		120	66.9-136			
Surrogate: 1-Chlorooctadecane	60.0		mg/kg	50.0		120	59.5-142			

**Batch 2022324 - General Prep - Organics****Blank (2022324-BLK1)**

Prepared: 23-Feb-22 Analyzed: 24-Feb-22

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	52.8		mg/kg	50.0		106	66.9-136			
Surrogate: 1-Chlorooctadecane	56.7		mg/kg	50.0		113	59.5-142			

**LCS (2022324-BS1)**

Prepared &amp; Analyzed: 23-Feb-22

GRO C6-C10	166	10.0	mg/kg	200		83.2	81.6-129			
DRO >C10-C28	220	10.0	mg/kg	200		110	83-129			
Total TPH C6-C28	387	10.0	mg/kg	400		96.7	84.5-127			
Surrogate: 1-Chlorooctane	62.7		mg/kg	50.0		125	66.9-136			
Surrogate: 1-Chlorooctadecane	63.1		mg/kg	50.0		126	59.5-142			

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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2022324 - General Prep - Organics****LCS Dup (2022324-BSD1)**

Prepared: 23-Feb-22 Analyzed: 24-Feb-22

GRO C6-C10	164	10.0	mg/kg	200		82.2	81.6-129	1.22	21.4
DRO >C10-C28	211	10.0	mg/kg	200		106	83-129	4.17	17.9
Total TPH C6-C28	376	10.0	mg/kg	400		93.9	84.5-127	2.89	17.6
Surrogate: 1-Chlorooctane	61.1		mg/kg	50.0		122	66.9-136		
Surrogate: 1-Chlorooctadecane	60.7		mg/kg	50.0		121	59.5-142		

**Batch 2022412 - General Prep - Organics****Blank (2022412-BLK1)**

Prepared &amp; Analyzed: 24-Feb-22

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	54.2		mg/kg	50.0		108	66.9-136		
Surrogate: 1-Chlorooctadecane	59.0		mg/kg	50.0		118	59.5-142		

**LCS (2022412-BS1)**

Prepared &amp; Analyzed: 24-Feb-22

GRO C6-C10	185	10.0	mg/kg	200		92.3	81.6-129		
DRO >C10-C28	224	10.0	mg/kg	200		112	83-129		
Total TPH C6-C28	409	10.0	mg/kg	400		102	84.5-127		
Surrogate: 1-Chlorooctane	63.7		mg/kg	50.0		127	66.9-136		
Surrogate: 1-Chlorooctadecane	65.9		mg/kg	50.0		132	59.5-142		

**LCS Dup (2022412-BSD1)**

Prepared &amp; Analyzed: 24-Feb-22

GRO C6-C10	186	10.0	mg/kg	200		92.8	81.6-129	0.528	21.4
DRO >C10-C28	228	10.0	mg/kg	200		114	83-129	1.95	17.9
Total TPH C6-C28	414	10.0	mg/kg	400		104	84.5-127	1.31	17.6
Surrogate: 1-Chlorooctane	58.1		mg/kg	50.0		116	66.9-136		
Surrogate: 1-Chlorooctadecane	63.7		mg/kg	50.0		127	59.5-142		

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**Analytical Results For:**

TETRA TECH  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: EVGSAU 3440-02 FLOWLINE RELE/  
Project Number: 212C - MD - 02499  
Project Manager: CHRISTIAN LLULL  
Fax To: (432) 682-3946

Reported:  
02-Mar-22 16:15

**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
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**Batch 2030209 - General Prep - Organics****Blank (2030209-BLK1)**

Prepared &amp; Analyzed: 02-Mar-22

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	62.4		mg/kg	50.0		125	66.9-136			
Surrogate: 1-Chlorooctadecane	61.3		mg/kg	50.0		123	59.5-142			

**LCS (2030209-BS1)**

Prepared &amp; Analyzed: 02-Mar-22

GRO C6-C10	210	10.0	mg/kg	200		105	81.6-129			
DRO >C10-C28	210	10.0	mg/kg	200		105	83-129			
Total TPH C6-C28	420	10.0	mg/kg	400		105	84.5-127			
Surrogate: 1-Chlorooctane	63.6		mg/kg	50.0		127	66.9-136			
Surrogate: 1-Chlorooctadecane	60.6		mg/kg	50.0		121	59.5-142			

**LCS Dup (2030209-BS1)**

Prepared &amp; Analyzed: 02-Mar-22

GRO C6-C10	221	10.0	mg/kg	200		110	81.6-129	4.92	21.4	
DRO >C10-C28	245	10.0	mg/kg	200		123	83-129	15.6	17.9	
Total TPH C6-C28	466	10.0	mg/kg	400		117	84.5-127	10.4	17.6	
Surrogate: 1-Chlorooctane	64.0		mg/kg	50.0		128	66.9-136			
Surrogate: 1-Chlorooctadecane	61.8		mg/kg	50.0		124	59.5-142			

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### 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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 01 of 07

[illegible]





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
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Page 02 of 07

[illegible]





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 63 of 07

[illegible]





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 04 of 07

[illegible]





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 05 of 07

[illegible]





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 06 of 07

<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>			
<b>Company Name:</b> ComocoPhillips	<b>P.O. #:</b>						
<b>Project Manager:</b> Christian Lulll	<b>Company:</b> Tetra Tech						
<b>Address:</b> christian.lull@tetratech.com	<b>Attn:</b> Christian Lulll						
<b>City:</b>	<b>State:</b>	<b>Zip:</b>	<b>Address:</b> by email				
<b>Phone #: (512) 338-1667</b>	<b>Fax #: NA</b>	<b>City:</b>	<b>State:</b>	<b>Zip:</b>			
<b>Project #: 212C-MD-02499</b>	<b>Project Owner:</b>						
<b>Project Name:</b> EVGSAU 3440-02 Flowline Release	<b>Phone #:</b>						
<b>Project Location:</b> Lea County, New Mexico	<b>Fax #:</b>						
<b>Sampler Name:</b> Joe Tyler							

FOR LAB USE ONLY		LAB I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX	Chlorides	Hold						
GNDWTR	WSTWR	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :														
HZ206S8													X	No Samples taken								
51	BH-22-C9	(6-7)	C-#1	X							2-16-22											
52		(2-10)																				
53	BH-22-I0	(O-1)									2-17-22		X									
54	BH-22-I1	(O-1)											X									
55	BH-22-I2	(O-1)											X									
56	BH-22-I3	(O-1)											X									
57	BH-22-I4	(O-1)											X									
58	BH-22-I5	(A-1)											X									
59	BH-22-I6	(O-1)											X									
LCD		(2-3)											X									

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<b>Relinquished By:</b> Cheyer	Date: 2/29/22	Received By: Lawrence Wilkoffsky
<b>Time:</b>	1:35	
<b>Date:</b>		
<b>Time:</b>		
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other: <i>1.66' ECOSL</i>	<b>Sample Condition</b> Cool Intact Yes No Yes [X] No [ ] <b>CHECKED BY:</b> (Initials) <i>T.E.</i>	<b>Email Results to:</b> <i>PM</i>





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---

March 10, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU 3440-02 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/08/22 9:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/08/2022	Sampling Date:	03/08/2022
Reported:	03/10/2022	Sampling Type:	Soil
Project Name:	EVGSAU 3440-02 FLOWLINE RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02499	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

**Sample ID: BH - 22 - 17 ( 0-1' ) (H220900-01)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2022	ND	1.95	97.3	2.00	8.95	
Toluene*	<0.050	0.050	03/10/2022	ND	1.95	97.5	2.00	9.53	
Ethylbenzene*	<0.050	0.050	03/10/2022	ND	1.88	93.8	2.00	9.37	
Total Xylenes*	<0.150	0.150	03/10/2022	ND	5.84	97.3	6.00	8.69	
Total BTEX	<0.300	0.300	03/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/09/2022	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/09/2022	ND	227	114	200	1.56	
DRO >C10-C28*	<10.0	10.0	03/09/2022	ND	218	109	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	03/09/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.0 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in cursive script, appearing to read "C. D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



**BILL TO**

## ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

## **APPENDIX F**

### **NMSLO Seed Mixture Details**





United States  
Department of  
Agriculture

**NRCS**

Natural  
Resources  
Conservation  
Service

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

# Custom Soil Resource Report for **Lea County, New Mexico**



February 11, 2022

# Preface

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

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

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

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

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

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

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# Contents

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**Preface**..... 2

**How Soil Surveys Are Made**.....5

**Soil Map**..... 8

    Soil Map.....9

    Legend.....10

    Map Unit Legend..... 11

    Map Unit Descriptions.....11

        Lea County, New Mexico..... 13

        KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes..... 13

**References**..... 16

# How Soil Surveys Are Made

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

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

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

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

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



## Custom Soil Resource Report

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

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

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

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

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

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

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

## Custom Soil Resource Report

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

## Soil Map

---

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


# Custom Soil Resource Report Soil Map



## Custom Soil Resource Report

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)


## Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

## Special Point Features

 Blowout

 Borrow Pit


 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole


 Slide or Slip

 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

## Water Features

 Streams and Canals


## Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

## Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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

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

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

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 18, Sep 10, 2021

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

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

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



## Custom Soil Resource Report

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	1.6	100.0%
<b>Totals for Area of Interest</b>		<b>1.6</b>	<b>100.0%</b>

## Map Unit Descriptions

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

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

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

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

## Custom Soil Resource Report

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

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

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

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

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

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

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

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

## Custom Soil Resource Report

**Lea County, New Mexico****KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes****Map Unit Setting***National map unit symbol: 2tw46**Elevation: 2,500 to 4,800 feet**Mean annual precipitation: 14 to 16 inches**Mean annual air temperature: 57 to 63 degrees F**Frost-free period: 180 to 220 days**Farmland classification: Not prime farmland***Map Unit Composition***Kimbrough and similar soils: 45 percent**Lea and similar soils: 25 percent**Minor components: 30 percent**Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Kimbrough****Setting***Landform: Playa rims, plains**Down-slope shape: Convex, linear**Across-slope shape: Concave, linear**Parent material: Loamy eolian deposits derived from sedimentary rock***Typical profile***A - 0 to 3 inches: gravelly loam**Bw - 3 to 10 inches: loam**Bkkm1 - 10 to 16 inches: cemented material**Bkkm2 - 16 to 80 inches: cemented material***Properties and qualities***Slope: 0 to 3 percent**Depth to restrictive feature: 4 to 18 inches to petrocalcic**Drainage class: Well drained**Runoff class: High**Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)**Depth to water table: More than 80 inches**Frequency of flooding: None**Frequency of ponding: None**Calcium carbonate, maximum content: 95 percent**Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)**Sodium adsorption ratio, maximum: 1.0**Available water supply, 0 to 60 inches: Very low (about 1.4 inches)***Interpretive groups***Land capability classification (irrigated): None specified**Land capability classification (nonirrigated): 7s**Hydrologic Soil Group: D**Ecological site: R077DY049TX - Very Shallow 12-17" PZ**Hydric soil rating: No*

## Custom Soil Resource Report

**Description of Lea****Setting**

*Landform:* Plains

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

**Typical profile**

*A - 0 to 10 inches:* loam

*Bk - 10 to 18 inches:* loam

*Bkk - 18 to 26 inches:* gravelly fine sandy loam

*Bkkm - 26 to 80 inches:* cemented material

**Properties and qualities**

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 22 to 30 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* High

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 90 percent

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

*Sodium adsorption ratio, maximum:* 3.0

*Available water supply, 0 to 60 inches:* Very low (about 2.9 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s

*Hydrologic Soil Group:* D

*Ecological site:* R077DY047TX - Sandy Loam 12-17" PZ

*Hydric soil rating:* No

**Minor Components****Douro**

*Percent of map unit:* 12 percent

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Ecological site:* R077DY047TX - Sandy Loam 12-17" PZ

*Other vegetative classification:* Unnamed (G077DH000TX)

*Hydric soil rating:* No

**Kenhill**

*Percent of map unit:* 12 percent

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Ecological site:* R077DY038TX - Clay Loam 12-17" PZ

*Hydric soil rating:* No

Custom Soil Resource Report

**Spraberry**

*Percent of map unit:* 6 percent

*Landform:* Playa rims, plains

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ

*Other vegetative classification:* Unnamed (G077DH000TX)

*Hydric soil rating:* No



# SLO Seed Mix

# SM Series

## 1 REVEGETATION PLANS

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

**Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico**

REVEGETATION PLANS	CODE	SOIL TEXTURES
Clay	C	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
Loam	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
Sandy Loam	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
Shallow	SH	Rocky Loam, Cobbly Loam
Course	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
Sandy	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
Blow Sand	BS	Fine Sand, Sand, Coarse Sand
Mountain Meadow	MM	Clay, Loam
Mountain Upland	MU	Clay Loam, Loam



**NMSLO Seed Mix****Loamy (L)****LOAMY (L) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
<b>Grasses:</b>			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
<b>Forbs:</b>			
Firewheel ( <i>Gaillardia</i> )	VNS, Southern	1.0	D
<b>Shrubs:</b>			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
<b>Total PLS/acre</b>		<b>18.0</b>	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



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**District II**  
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**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
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**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 97952

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 97952
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Composite confirmation samples will be collected from the bottom and sidewall of the excavation from areas representing no more than four hundred (400) square feet.	5/17/2022