	Page 1 of 57
Incident ID	nAPP2110931060
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

This information must be provided to the appropriate district office no fater than 20 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	>105 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🗸 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🗸 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🗸 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗹 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🗸 No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗸 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🗹 No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗹 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	✓ Yes 🗌 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	

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.
<u>✓</u> 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.

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	Page 2 of 5
Incident ID	nAPP2110931060
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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: Jacqui Harris	Title: Environmental Coordinator					
Signature: Jacque Shoris	Date:7.6.21					
email: jacqui.harris@conocophillips.com	Telephone: <u>575-745-1807</u>					
OCD Only						
Received by:	Date:					

	I uge 5 of
Incident ID	nAPP2110931060
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be	included in the plan.
<ul> <li>✓ Detailed description of proposed remediation technique</li> <li>✓ Scaled sitemap with GPS coordinates showing delineation points</li> <li>✓ Estimated volume of material to be remediated</li> <li>✓ Closure criteria is to Table 1 specifications subject to 19.15.29.12</li> <li>✓ Proposed schedule for remediation (note if remediation plan times)</li> </ul>	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be conjugated	Firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around prodeconstruction.	
<ul> <li>Extents of contamination must be fully delineated.</li> </ul>	
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 rules and regulations all operators are required to report and/or file of which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local lateral states.	ertain release notifications and perform corrective actions for releases ce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, cceptance of a C-141 report does not relieve the operator of
Printed Name: Jacqui Harris	Title: Environmental Coordinator
Signature: Jacque Thoris	Date: 7.6.21
email: jacqui.harris@conocophillips.com	Telephone: <u>575-745-1807</u>
OCD Only	
Received by: Chad Hensley	Date: 07/21/2021
	Approval Denied Deferral Approved
Signature:	Date: 07/21/2021

# Site Assessment Report and Proposed Remediation Workplan

## COG Operating, LLC Eider Federal 2H

Lea County, New Mexico
Unit Letter O, Section 23, Township 24 South, Range 32 East
Latitude 32.16782 North, Longitude 103.64268 West
NMOCD Reference No. nAPP2110931060

Prepared By:

Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway Lovington, New Mexico 88260

Matthew Grieco

Joel W. Lowry



Midland • San Antonio • Lubbock • Lovington • Lafayette

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## **FIGURES**

Figure 1 - Topographic Map

Figure 2 - Aerial Proximity Map

Figure 3 - Site and Sample Location Map

### **TABLES**

Table 1 - Concentrations of BTEX, TPH, and Chloride in Soil

### **APPENDICES**

Appendix A - Depth to Groundwater Information

Appendix B - Field Data and Soil Profile Logs

Appendix C - Laboratory Analytical Reports

Appendix D - Photographic Log

## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this *Site Assessment Report and Proposed Remediation Workplan* for the release site known as the Eider Federal 2H (henceforth, "Site"). Details of the release are summarized below:

Latitude:	32.16782		Longitude		-103.64268		
Lamude.	32.10782	Provided GPS	Longitude: are in WGS84 format		-103.04206		
Site Name:	Eider Federal 21		Site Type: Tank Battery				
Date Release Discover	ed: 4/3/	2021 A	API # (if applica	ble):	N/A		
Unit Letter Se	ction Tow	nship	Range	County	7		
0	23 2	4S	32E				
Surface Owner: St	ate X Federal	Tribal P	rivate (Name of R				
X Crude Oil	Volume Release	d (bbls)	20	Volume Recove	red (bbls) 18		
Produced Water	Volume Release	d (bbls)		Volume Recovered (bbls)			
Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?							
Condensate	Volume Release	Volume Recovered (bbls)					
Natural Gas	Volume Release	d (Mcf)		Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released Volume/Weight Recovered							
pasture. A vacuum truck was	dispatched to remove all fi	reestanding fluids. Con-	cho will evaluate the	site to determine if we ma	d facility and some over sprayed in the ny commence remediation immediately ior to any significant remediation		
		Initial	Response				
X The source of the	release has been sto	pped.					
X The impacted area	has been secured to	protect human he	ealth and the env	ironment.			
X Release materials	have been contained	I via the use of bea	rms or dikes, abs	orbent pad, or othe	r containment devices		

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

## 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	>10:	5 Feet
Did the release impact groundwater or surface water?	Yes	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	Yes	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	X Yes	No

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

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
>105 Feet	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

<sup>\*</sup> Measured in milligrams per kilogram (mg/kg)

<sup>†</sup> Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

<sup>‡</sup> The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

## 4.0 INITIAL SITE ASSESSMENT

On April 29, 2021, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of volatile organic compounds utilizing visual/olfactory senses and concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, sixteen (16) delineation soil samples (NH @ Surface 0-6", NH @ 1', EH @ Surface 0-6", EH @ 1', SH @ Surface 0-6", SH @ 1', WH @ Surface 0-6", WH @ 1', DEF @ Surface 0-6", DEF @ 2', V 1 @ Surface 0-6", V 1 @ 1', V 2 @ Surface 0-6", V 2 @ 1', V 3 @ Surface 0-6", and V 3 @ 1') were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard beyond two (2) feet below ground surface (bgs) at sample point DEF, or beyond one (1) foot bgs in the areas characterized by sample points V 1 and V 2. Additionally, the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined.

A site and sample location map is provided as Figure 3. Field data and soil profile logs are provided as Appendix B. A soil chemistry table is provided as Table 1. Laboratory analytical reports are provided in Appendix C.

### 5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, COG Operating, LLC, proposes the following remediation activities designed to advance the Site toward an approved closure:

- Utilizing mechanical equipment and/or hand tools, excavate impacted soil affected above the NMOCD Reclamation Standard in the areas characterized by sample points V 1 and V 2 to an estimated depth of one (1) foot bgs, or until laboratory analytical results indicate BTEX, TPH, and chloride concentrations are below the NMOCD Reclamation Standard.
- Advance the edges of the excavation until laboratory analytical results indicate BTEX, TPH, and chloride concentrations are below the NMOCD Reclamation Standard, or to the maximum extent practicable.
- Remediation of impacted soil adjacent to and underneath the fencing, containment, pipelines, and associated appurtenances along the northern edge of the production pad will be deferred until the decomission and reclamation of the facility.
- Excavated soil will be temporarily stockpiled on-site atop an impermeable liner, then transported to an NMOCD-approved surface waste facility for disposal.
- Upon receiving laboratory analytical results from confirmation soil samples, backfill the excavated areas with locally sourced, non-impacted, "like" material.
- Upon completion of remediation activities, a *Remediation Summary and Deferral Request* will be prepared detailing field activities and laboratory analytical results from confirmation soil samples.

### 6.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear feet. A minimum of one (1) representative five-point composite confirmation soil sample will be collected from the base of the excavated area representing every 250 square feet. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

## 7.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within ninety (90) days of receiving necessary approval(s) of the *Site Assessment Report and Proposed Remediation Workplan*. Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, it is estimated that approximately 200 cubic yards of impacted soil is in need of removal.

## 8.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area will be compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the Site.

## 9.0 LIMITATIONS

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

This report has been prepared for the benefit of COG Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or COG Operating, LLC.

## 10.0 DISTRIBUTION

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

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

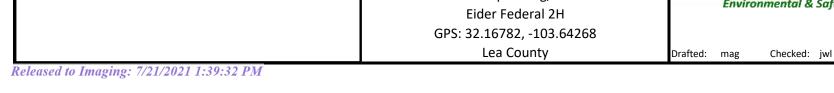
Hobbs Field Office New Mexico State Land Office 2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

(Electronic Submission)

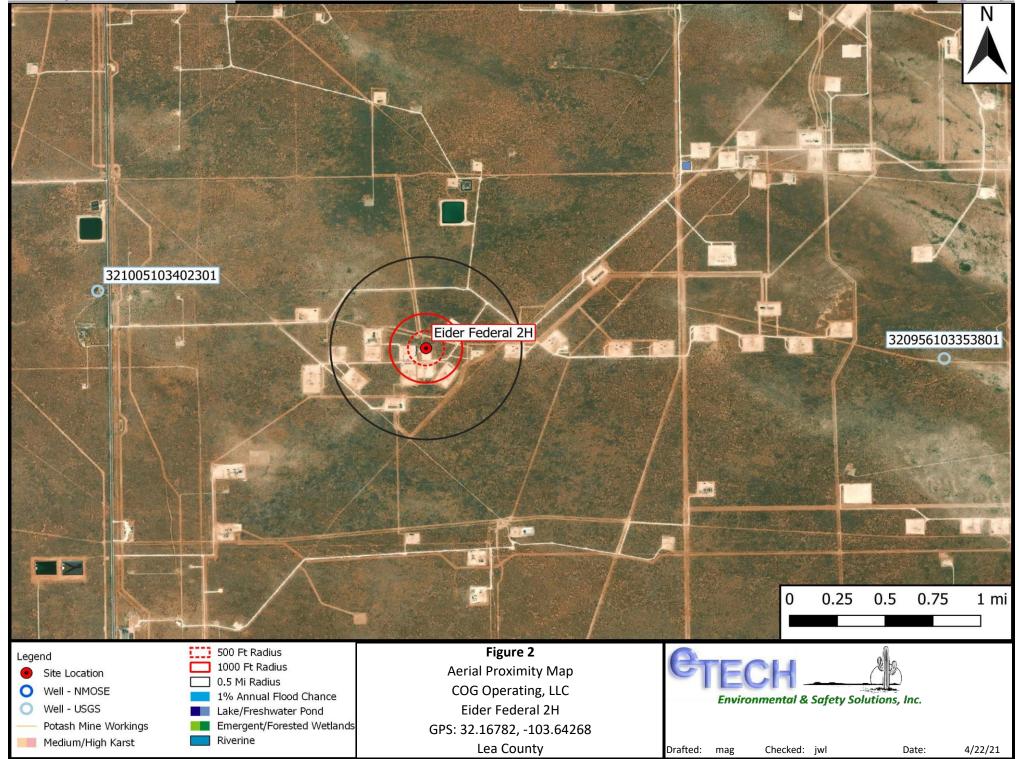
## Figure 1 Topographic Map

Date:

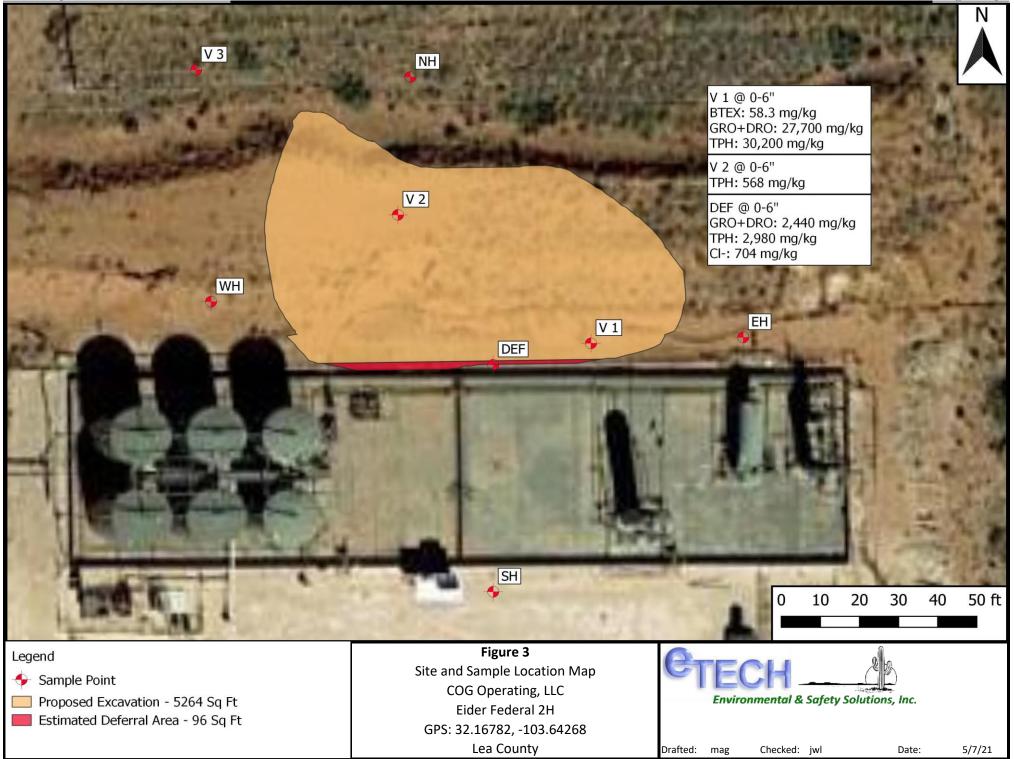
4/22/21



## Figure 2 Aerial Proximity Map



# Figure 3 Site and Sample Location Map



## Table 1 Concentrations of BTEX, TPH, and Chloride in Soil

## Table 1

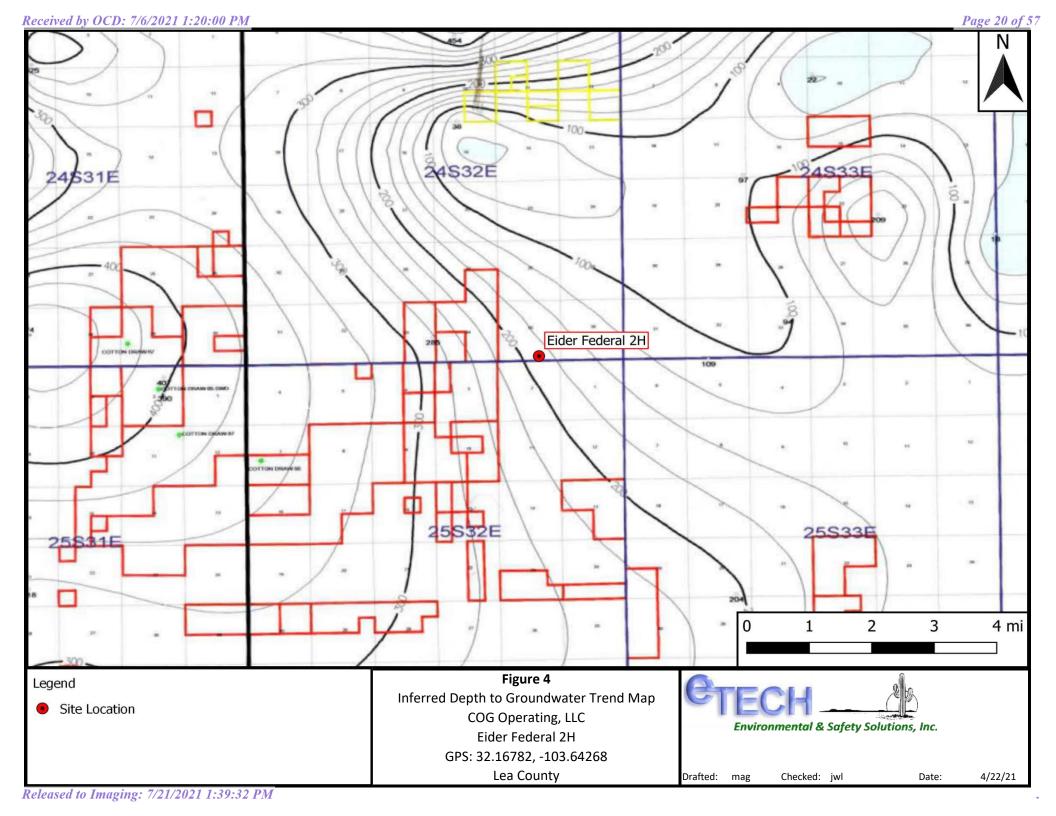
## Concentrations of BTEX, TPH, and Chloride in Soil

## COG Operating, LLC Eider Federal 2H

NMOCD Ref. #: Pending

NWOCD Ref. #: Felluling											
NMOCD Closure Criteria				10	50	•	-	1,000	•	2,500	20,000
NMOCD Reclamation Standard			10	50	•	-			100	600	
				SW 840	6 8021B		SW 846 8015M Ext.				4500 Cl
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
NH @ Surface 0-6"	4/28/2021	0-6"	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0
NH @ 1'	4/28/2021	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	<16.0
EH @ Surface 0-6"	4/28/2021	0-6"	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EH @ 1'	4/28/2021	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SH @ Surface 0-6"	4/28/2021	0-6"	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SH @ 1'	4/28/2021	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WH @ Surface 0-6"	4/28/2021	0-6"	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH @ 1'	4/28/2021	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
DEF @ Surface 0-6"	4/28/2021	0-6"	In-Situ	< 0.050	< 0.300	<10.0	2,440	2,440	537	2,980	704
DEF @ 2'	4/28/2021	2'	In-Situ	< 0.050	< 0.300	<10.0	54.3	54.3	15.5	69.8	16.0
V 1 @ Surface 0-6"	4/28/2021	0-6"	In-Situ	< 0.050	58.3	2,070	25,600	27,700	2,480	30,200	560
V 1 @ 1'	4/28/2021	1'	In-Situ	< 0.050	< 0.300	<10.0	65.9	65.9	<10.0	65.9	32.0
V 2 @ Surface 0-6"	4/28/2021	0-6"	In-Situ	< 0.050	< 0.300	<10.0	496	496	72.1	568	112
V 2 @ 1'	4/28/2021	1'	In-Situ	< 0.050	< 0.300	<10.0	41.2	41.2	<10.0	41.2	16.0
V 3 @ Surface 0-6"	4/28/2021	0-6"	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
V 3 @ 1'	4/28/2021	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0

# Appendix A Depth to Groundwater Information



Received by OCD: 7/6/2021 1:20:00 PM 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** 

Sub-Q Q QCode

basin County 64 16 4 Sec Tws Rng **CUB** 05 25S 33E

 $\mathbf{X}$ 632292 3559772 DistanceDepthWellDepthWater Column 4314 150

Water

60

C LE 29 33E 633114 3562012\* 5575 500 24S

Average Depth to Water:

90 feet

Minimum Depth:

90 feet

Maximum Depth:

90 feet

Record Count: 2

**POD Number** 

C 02312

C 02890

UTMNAD83 Radius Search (in meters):

**Easting (X):** 627977.29

**Northing (Y):** 3559844.67

**Radius:** 6440

\*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.

4/22/21 12:52 PM

WATER COLUMN/ AVERAGE DEPTH TO

WATER

Received by OCD: 7/6/2021 1:20:00 PM New Mexico Office of the State Engineer

Page 22 of 57

## **Point of Diversion Summary**

05 25S 33E

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

NA C 02312

632292 3559772

Driller License: Driller Company:

**Driller Name:** UNKNOWN

Pump Type:Pipe Discharge Size:Estimated Yield:20 GPMCasing Size:6.38Depth Well:150 feetDepth Water:90 feet

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

4/22/21 12:55 PM

POINT OF DIVERSION SUMMARY



## **Point of Diversion Summary**

24S 33E

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** 

Q64 Q16 Q4 Sec Tws Rng

X

C 02890

633114 3562012\*

**Driller License:** 

**Driller Company:** 

**Driller Name:** 

**Drill Start Date: Drill Finish Date:**  Plug Date:

Log File Date:

**PCW Rcv Date:** Source:

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

Depth Well: 8.00

500 feet

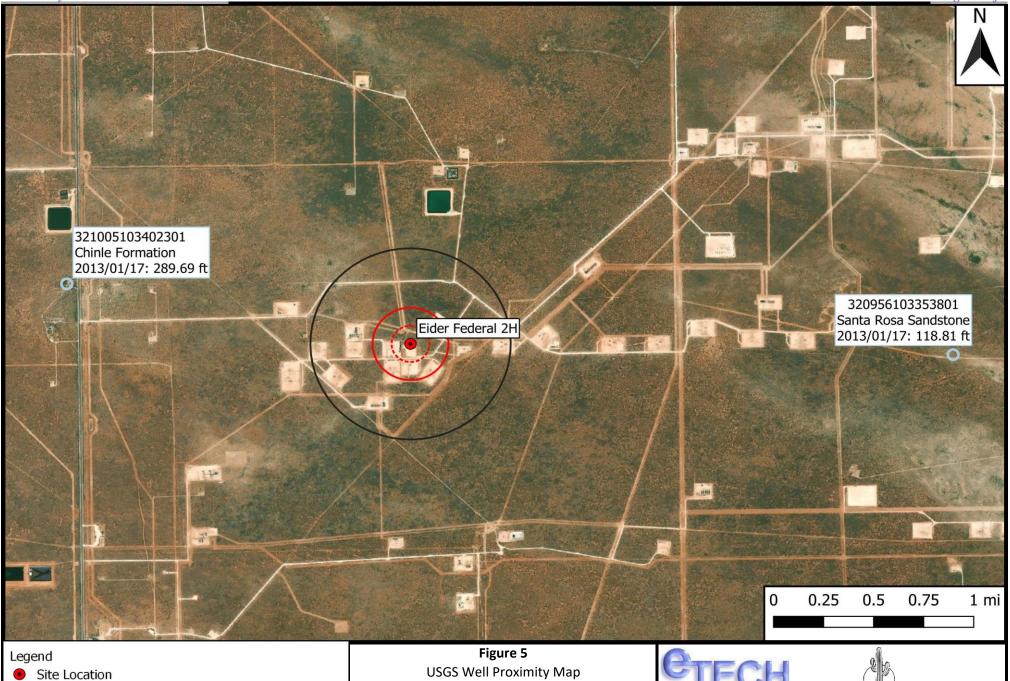
**Depth Water:** 

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

4/22/21 12:56 PM

POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help



☐ 0.5 Mi Radius

COG Operating, LLC Eider Federal 2H

GPS: 32.16782, -103.64268 Lea County





**Environmental & Safety Solutions, Inc.** 

Drafted: mag Checked: jwl Date:

4/22/21



## **National Water Information System: Web Interface**

**USGS Water Resources** 

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

### Click to hideNews Bulletins

- Explore the **NEW** <u>USGS National Water Dashboard</u> to access real-time data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

\* IMPORTANT: <u>Next Generation Station Page</u>

## Search Results -- 1 sites found

Agency code = usgs site no list =

320956103353801

## Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 320956103353801 25S.33E.05.12122

Available data for this site Groundwater: Field measurements • GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°09'59.4", Longitude 103°35'47.2" NAD83

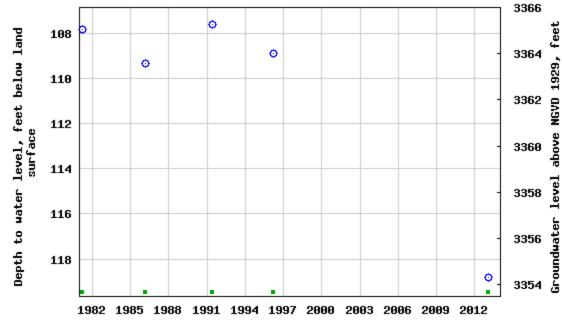
Land-surface elevation 3,473.00 feet above NGVD29

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

### **Output formats**

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



- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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

Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2021-04-22 14:30:03 EDT

0.74 0.63 nadww01





## **National Water Information System: Web Interface**

**USGS Water Resources** 

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

### Click to hideNews Bulletins

- Explore the **NEW** <u>USGS National Water Dashboard</u> to access real-time data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

\* IMPORTANT: Next Generation Station Page

## Search Results -- 1 sites found

Agency code = usgs site no list =

321005103402301

## Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 321005103402301 24S.32E.33.42241

Available data for this site Groundwater: Field measurements • GO

Lea County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°10'21.6", Longitude 103°40'18.9" NAD83

Land-surface elevation 3,499.00 feet above NGVD29

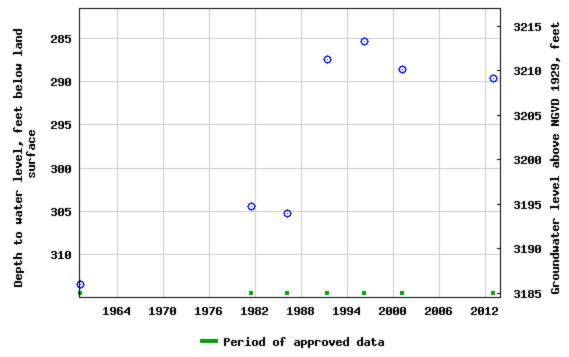
The depth of the well is 367 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

### **Output formats**

- Catpat ioimats
Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

FOIA

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Policies and Notices

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

Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2021-04-22 14:30:04 EDT

0.74 0.62 nadww01



## Appendix B Field Data and Soil Profile Logs



Project Name : Eider Fed 2H

Project No. : 214307

Location : Lea County, New Mexico

Coordinates : 32.16721, -103.64301

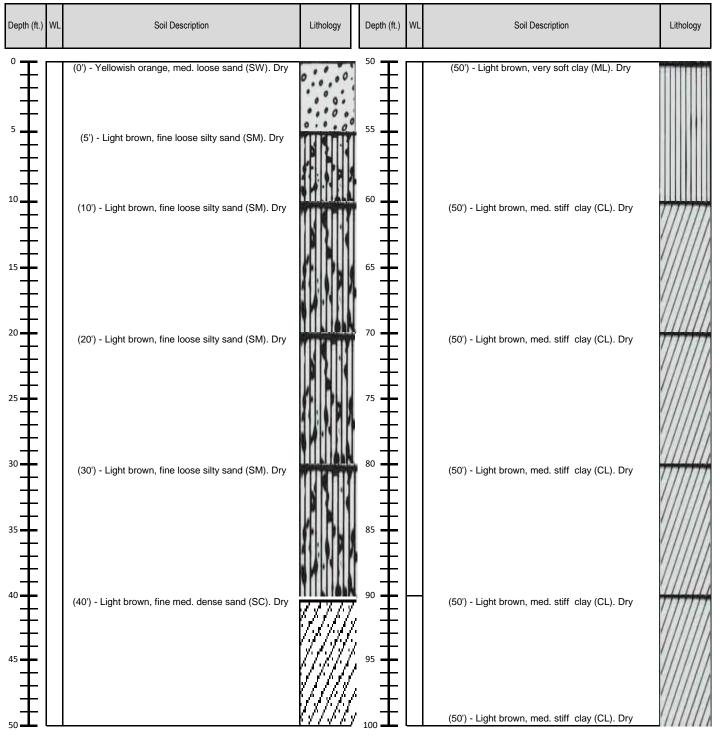
Elevation : 3,544

Date: Wednesday, June 16, 2021

Sampler : Clint Merritt

Driller: Scarborough Drilling

Method: Air Rotary



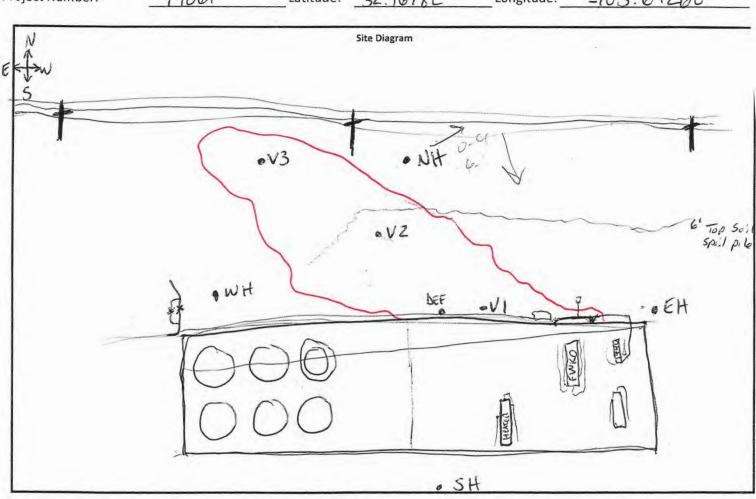
Comments:

Total Depth 105' bgs Drilling terminated @14:30 (CT) No Groundwater Present On 6/21/2021 No groundwater present

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a construction of the second	reduk Safe	etv Salutions, In

## **Initial Release Assessment Form**

	V-10/		211	and the same	Date:	4/29/21	
Project:	F71761	3 Federal	ZH	Clean Up Level:			
Project Num	ber:	14061	Latitude:	32.16782	Longitude:	-103.64268	



Notes:		NEW THEORY AND			inanzzana (122a-nez	No. 100 August 1967 - 100	
Impacted	Soil	piles	around	Seperator	containme	<b>~</b> t	
		1					

~Length: NA	~Width: NA	~Area: Pasture	~Depth: Z'		
	*			Yes	No
3-4 Representative	Pictures of the Affecte	d Area including sample locat	ions?		
Necessary Samples	Field Screened and on	Ice?			
Sample and Field S	creen Data Entered on	Sample Log?		D	
Was horizontal and	d vertical delineation ac	hieved?			



## Sample Log

Date: 4/28/21

Project: Eider Federal 2H

Project Number: 14061 Latitude: 32.16782 Longitude: -103.64268

Sample ID	PID/Odor	Chloride Conc.	GPS
NH & Surface 0-6		ND	
		ND	
VH & 1" SH & Suntace 0"6"		368	
sit e i'	2000	328	
NH & Surface 0:6		120	
NH e i	-	NO	
EH & Suntace 0:6"	parent-	168	
EH & Surface 0:6"	programme (A)	144	
		668	
VI & Surtare 0-6"		NO	
V2 e Surface 0.6"		144	
VZ el'		ND	
V3 e Surface D-6"		ND	
13 e 1'	-	ND	
DEF 1 @ Surface 0".6"	~	612	
SEF 1 2 2'		168	
			- 14

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

**GPS Sample Points, Center of Comp Areas** 



## **Soil Profile**

Environmental & Safety Solutions, Inc.				Date:	4/29/21
Project: Eider Federal 2H	14061	ا ماند. ام	22 16702		1
Project Number:	14061	Latitude:	32.16782	Longitude:	-103.64268
Depth (ft. bgs)	Bron	on first	De.	scription	
2 1 1	2.50	r Caliba			
3 4					
5 6					
7					
9					
10 11					
12 13					
14					
15 16					
17 18					
19					
21					
22 23					
24 25	-				
26 27					
28					
29 30					
31					
33					
34 35					
36 37					
38					
39 40					

## Appendix C Laboratory Analytical Reports



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

April 30, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: EIDER FEDERAL 2H

Enclosed are the results of analyses for samples received by the laboratory on 04/28/21 14:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



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

### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2021

Reported: 04/30/2021

Project Name: EIDER EEDERAL 28

Project Name: EIDER FEDERAL 2H Project Number: 14061

Project Location: COG

Sampling Date: 04/28/2021
Sampling Type: Sludge
Sampling Condition: Cool & Intact

Sample Received By: Cool & Intact

Tamara Oldaker

### Sample ID: DEF @ SURFACE 0-6" (H211102-01)

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	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	04/30/2021	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	222	111	200	3.11	
DRO >C10-C28*	2440	10.0	04/29/2021	ND	216	108	200	3.38	
EXT DRO >C28-C36	537	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	77.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	154	% 38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received: 04/28/2021 Reported: 04/30/2021 Project Name: EIDER FEDERAL 2H

ma/ka

Project Number: 14061
Project Location: COG

Sampling Date: 04/28/2021
Sampling Type: Sludge
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: DEF @ 2' (H211102-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	0						
Chloride, SM4500Cl-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	04/30/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	222	111	200	3.11	
DRO >C10-C28*	54.3	10.0	04/29/2021	ND	216	108	200	3.38	
EXT DRO >C28-C36	15.5	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	76.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.2	% 38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received: 04/28/2021
Reported: 04/30/2021
Project Name: EIDER FEDERAL 2H
Project Number: 14061

Sampling Date:
Sampling Type:
Sampling Condition:
Sample Received By:

04/28/2021 Sludge Cool & Intact

Tamara Oldaker

Project Location: COG

RTFY 8021R

#### Sample ID: NH @ SURFACE 0-6" (H211102-03)

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.4	% 69.9-14	0						
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	04/30/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	222	111	200	3.11	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	87.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.9	% 38.9-14	2						

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Celey D. Keine



04/28/2021

Cool & Intact

Tamara Oldaker

Sludge

#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2021
Reported: 04/30/2021
Project Name: EIDER FEDERAL 2H
Project Number: 14061

2021 Sampling Type:
FEDERAL 2H Sampling Condition:
Sample Received By:

Sampling Date:

Project Location: COG

#### Sample ID: NH @ 1' (H211102-04)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 69.9-14	0						
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	04/30/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	222	111	200	3.11	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	88.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	85.2	% 38.9-14	2						

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Celey D. Kreine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2021
Reported: 04/30/2021
Project Name: EIDER FEDERAL 2H

Project Number: 14061
Project Location: COG

Sampling Date: 04/28/2021
Sampling Type: Sludge
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: SH @ SURFACE 0-6" (H211102-05)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	< 0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 69.9-14	0						
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	04/30/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	222	111	200	3.11	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	216	108	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	75.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	71.5	% 38.9-14	2						

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Celey D. Kune



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2021 Reported: 04/30/2021 Project Name: **EIDER FEDERAL 2H** 

Project Number: 14061 Project Location: COG

Sampling Date: 04/28/2021 Sampling Type: Sludge Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: SH @ 1' (H211102-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 69.9-14	0						
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	04/30/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2021	ND	222	111	200	3.11	
DRO >C10-C28*	<10.0	10.0	04/30/2021	ND	216	108	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	04/30/2021	ND					
Surrogate: 1-Chlorooctane	79.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.4	% 38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



04/28/2021

Cool & Intact

Tamara Oldaker

Sludge

#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2021 Sampling Date: Reported: 04/30/2021 Sampling Type: Project Name: EIDER FEDERAL 2H Sampling Condition: Project Number: Sample Received By: 14061

Project Location: COG

#### Sample ID: WH @ SURFACE 0-6" (H211102-07)

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	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/30/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2021	ND	222	111	200	3.11	
DRO >C10-C28*	<10.0	10.0	04/30/2021	ND	216	108	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	04/30/2021	ND					
Surrogate: 1-Chlorooctane	85.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.9	% 38 9-14	2						

Surrogate: 1-Chlorooctadecane 80.9 % 38.9-142

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2021 Reported: 04/30/2021 Project Name: EIDER FEDERAL 2H

14061

Project Number: Project Location: COG Sampling Date: 04/28/2021 Sampling Type: Sludge Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: WH @ 1' (H211102-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.4	% 69.9-14	0						
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	04/30/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2021	ND	222	111	200	3.11	
DRO >C10-C28*	<10.0	10.0	04/30/2021	ND	216	108	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	04/30/2021	ND					
Surrogate: 1-Chlorooctane	84.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	81.0	% 38.9-14	2						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2021
Reported: 04/30/2021
Project Name: EIDER FEDERAL 2H

Project Number: 14061 Project Location: COG Sampling Date: 04/28/2021
Sampling Type: Sludge
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: EH @ SURFACE 0-6" (H211102-09)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 69.9-14	0						
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	04/30/2021	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2021	ND	222	111	200	3.11	
DRO >C10-C28*	<10.0	10.0	04/30/2021	ND	216	108	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	04/30/2021	ND					
Surrogate: 1-Chlorooctane	82.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.4	% 38.9-14	22						

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04/28/2021

#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2021 Reported: 04/30/2021 Project Name: **EIDER FEDERAL 2H** 

14061

Sampling Type: Sludge Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sampling Date:

Project Location: COG

#### Sample ID: EH @ 1' (H211102-10)

Project Number:

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	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/30/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	240	120	200	3.38	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	63.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	60.8	% 38.9-14	2						

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#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received: 04/28/2021
Reported: 04/30/2021
Project Name: EIDER FEDERAL 2H
Project Number: 14061

Sampling Date:
Sampling Type:
Sampling Condition:
Sample Received By:

04/28/2021 Sludge Cool & Intact Tamara Oldaker

Project Location: COG

RTFY 8021R

#### Sample ID: V 1 @ SURFACE 0-6" (H211102-11)

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	3.50	0.500	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	5.38	0.500	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	49.4	1.50	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	58.3	3.00	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	136	% 69.9-14	0						
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	04/30/2021	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2070	200	04/30/2021	ND	240	120	200	3.38	
DRO >C10-C28*	25600	200	04/30/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	2480	200	04/30/2021	ND					
Surrogate: 1-Chlorooctane	697	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	818	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2021
Reported: 04/30/2021
Project Name: EIDER FEDERAL 2H
Project Number: 14061

Sampling Date: 04/28/2021
Sampling Type: Sludge
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Location: COG

#### Sample ID: V 1 @ 1' (H211102-12)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	< 0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 69.9-14	0						
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	04/30/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/30/2021	ND	240	120	200	3.38	
DRO >C10-C28*	65.9	10.0	04/30/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/30/2021	ND					
Surrogate: 1-Chlorooctane	76.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.6	% 38.9-14	12						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2021
Reported: 04/30/2021
Project Name: EIDER FEDERAL 2H
Project Number: 14061

Sampling Type: Sampling Condition: Sample Received By:

Sampling Date:

Cool & Intact Tamara Oldaker

04/28/2021

Sludge

Project Location: COG

#### Sample ID: V 2 @ SURFACE 0-6" (H211102-13)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.5	% 69.9-14	0						
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	04/30/2021	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	240	120	200	3.38	
DRO >C10-C28*	496	10.0	04/29/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	72.1	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	73.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	92.8	% 38.9-14	2						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received: 04/28/2021
Reported: 04/30/2021
Project Name: EIDER FEDERAL 2H

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Project Number: 14061
Project Location: COG

Sampling Date: 04/28/2021
Sampling Type: Sludge
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: V 2 @ 1' (H211102-14)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/30/2021	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	240	120	200	3.38	
DRO >C10-C28*	41.2	10.0	04/29/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	71.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	71.7	% 38.9-14	2						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received: 04/28/2021 Reported: 04/30/2021 Project Name: **EIDER FEDERAL 2H** Project Number:

14061

Sampling Date: 04/28/2021 Sampling Type: Sludge Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Location: COG

RTFY 8021R

#### Sample ID: V 3 @ SURFACE 0-6" (H211102-15)

B1EX 8021B	mg,	кg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.5	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/30/2021	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	240	120	200	3.38	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	77.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.1	% 38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2021 Reported: 04/30/2021 Project Name: EIDER FEDERAL 2H

Project Number: 14061
Project Location: COG

Sampling Date: 04/28/2021
Sampling Type: Sludge
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: V 3 @ 1' (H211102-16)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2021	ND	2.06	103	2.00	5.49	
Toluene*	<0.050	0.050	04/29/2021	ND	2.02	101	2.00	10.1	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.99	99.6	2.00	9.59	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.73	95.6	6.00	8.93	
Total BTEX	<0.300	0.300	04/29/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/30/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2021	ND	240	120	200	3.38	
DRO >C10-C28*	<10.0	10.0	04/29/2021	ND	220	110	200	7.31	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					
Surrogate: 1-Chlorooctane	73.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	71.7	% 38.9-14	22						

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Celey D. Keine



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

## RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2	476					-	9595	****			150					AN	ALYS	SIS F	REQUE	EST		
Company Name: Etech Environmental & Safety Solu	tions,	Inc.							ы	LI	L TO					1	T					
Project Manager: Joel Lowry							2.0.			3	00	-										
Address: P.O. Box 301							Con	npar	ıy: (	_ (	OG											
City: Lovington State: NM	Zip	882	260			1	Attn	ı: 〔	Sae	94	ai Hari	15										
Phone #: (575) 396-2378 Fax #: (575)	396-1	429						ires		•												
Project #: 14061 Project Owner	er: (	0	C	)			City	r:						=	B							
Project Name: Eider Federal 2H							Sta	te:		Z	ip:		ge	TPH (8015M)	(8021B)							
							Pho	one :	#:				Chloride	(80	(8)							
Project Location:							Fax	(#:						표	втех							
Sampler Name: Leavel Mojica	T	T		MA	TRIX			PRE	SERV	4	SAMPLING			-	m							
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	Time:			Please email results to pm@etechenv.com.
Delivered By: (Circle One)	ę	Sample Condition	(Initials)	
Sampler - UPS - Bus - Other:	5.40 1	113 Yes Yes	70	

FORM-006 Revision 1.0

Page 20 of 20

# ARDINAL LABORATORIES

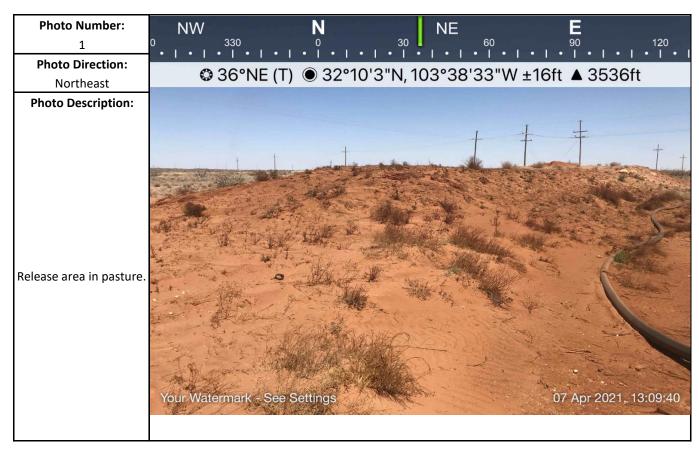
## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

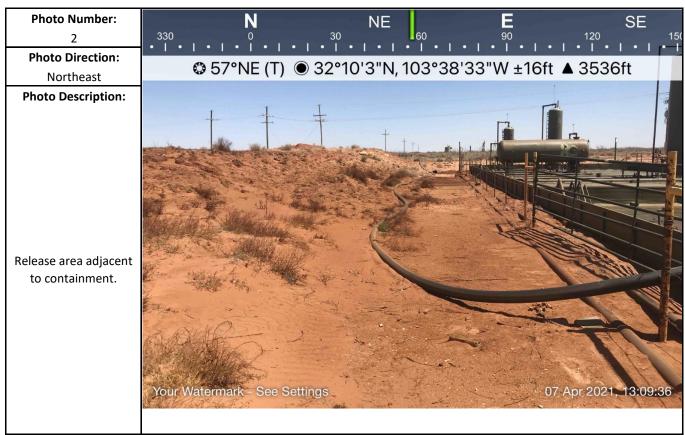
101 East Marland,	Hobbs, NM 88240
	FAX (575) 393-2476

Company Name: Etech Environmental & Safety Solutions, Inc.  Project Manager: Selection State: NM Zip: 88260  Address: P.O. Box 301  City: Lovington State: NM Zip: 88260  Phone #: (575) 396-2378  Fax #: (575) 396-1429  Address: State:		93-2326 FAX								DI	LLTO	277.272					NAL	YSIS	REC	QUES	Т			
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			£4°	#	1/2	Coo	Inta	act	n	(1	nitials)													

### Appendix D Photographic Log

#### Photographic Log





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

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

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

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

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

CONDITIONS

Action 35002

#### **CONDITIONS**

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	35002
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
chensley	None	7/21/2021