July 15, 2022

Robert Hamlet
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
PH #: 575-748-1283
Robert.Hamlet@state.nm.us

Re: Soil Remediation Workplan
Chevron USA
Benson Shugart Waterflood Unit #015 Release (nMLB0526441458)
GPS: N 32.71542° W 103.93081°
Unit Letter "L", Section 25, Township 18 South, Range 30 East
Eddy County, New Mexico

Dear Mr. Hamlet,

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Chevron USA (Chevron), has prepared this Soil Remediation Workplan for the Benson Shugart Waterflood Unit #015 Release Site (Release Site). The legal description of the Release Site is Unit Letter "L", Section 25, Township 18 South, Range 30 East, in Eddy County, New Mexico. The GPS coordinates for the site are N 32.71542° W 103.93081°. A Site Location Map and Aerial Proximity Map are provided as Figure 1 and Figure 2, respectively.

INTRODUCTION

On August 14, 2005, a reportable release occurred at the Release Site. The release was the result of a pipeline failure and impacted the pasture adjacent to the lease road. Approximately two hundred (200) barrels (bbls) of produced water was released with approximately one hundred fifty (150) bbls recovered via vacuum trucks, for a net loss of fifty (50) bbls of produced water. The initial Form C-141 is provided in Appendix A.

NMOCD SITE CLASSIFICATION

NMOCD assessment and cleanup levels for hydrocarbon and produced water releases are based on depth to groundwater and karst status and follow the criteria in the revised August 2018 Title 19 Chapter 15 part 29 New Mexico Administrative Code (19.15.29 NMAC) regulations. Groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE), New Mexico Bureau of Geology & Mineral Resources (NMBGMR), and United States Geological Survey (USGS) were accessed to determine if any registered water wells were located within a half-mile of the site. The databases identified two (2) registered water wells within a ½-mile radius. No water wells were located within one thousand (1,000) ft of the release. The two wells located within a ½-mile of the site were USGS 324241103561201 & 324244103561601 with depths ranging from one hundred eighty-four (184) ft below ground surface (bgs) to two hundred five (205) ft bgs for an average depth of one hundred ninety-five (195) ft bgs. In addition, the site is listed as being in a high Karst Topography region. See Appendix B for maps, along with water well data, detailing the site relative to groundwater locations. Based on the NMOCD site classification system, the following soil remediation levels were assigned to the Release Site:

- Benzene – 10 mg/Kg (ppm)
- Total BTEX – 50 mg/Kg (ppm)
- Total TPH – 100 mg/Kg (ppm)
- Chloride – 600 mg/Kg (ppm)

INITIAL ASSESSMENT AND DELINEATION ACTIVITIES

On January 5, 2022, Etech was onsite to perform the initial assessment and delineation of the release. The release, located on Bureau of Land Management (BLM) property, measured approximately four hundred twenty-five (425) feet (ft) in length and five (5) to thirty (30) ft wide along the lease road. The surface dimensions covered an area of approximately 5,372 square feet. Four (4) auger holes (Auger Hole 1 through Auger Hole 4) were installed in the inferred spill area to a depth of forty-eight (48) inches bgs. Samples were collected and submitted to Europhins Laboratory in Midland, Texas for analysis of Benzene, Toulene, Ethylbenzene, and Xylenes (BTEX) by EPA method 8021B, Total Petroleum Hydrocarbons (TPH) by EPA method 8015M, and Chlorides by EPA method 300.0. Analytical concentrations for Benzene, Total BTEX, and TPH were below method detection limit (MDL) and/or the New Mexico Oil Conservation Division (NMOCD) remediation standards. The chloride concentrations were above the NMOCD remediation standard of 600 mg/Kg for all soil samples submitted and ranged from 889 mg/Kg for Auger Hole 4 (3.5'-4.0') to 17,100 mg/Kg for Auger Hole 4 (0-0.5'). See Appendix C for attached photos detailing release and impact to pad. See Figure 3 for Site Details Location Map. See Figure 4 for Delineation Plat.

On April 6 & 11, 2022, Etech further delineated the Release Site in an attempt to reach full chloride delineation. Four (4) auger holes (Auger Hole 1 through Auger Hole 4) were installed in the same area as the first delineation to a depth of seventy-two (72) inches bgs. In addition, six (6) auger holes (East, West, South, North) were installed in each cardinal direction in an attempt to determine the boundaries of the release, to a depth of forty-eight (48) inches bgs. Field chloride screening was conducted during delineation event. Samples were collected and submitted to Europhins in Midland, Texas for chloride analysis. The chloride concentrations were below the NMOCD remediation standard of 600 mg/Kg for

all samples analyzed and ranged from <4.95 mg/Kg for South Auger Hole 1 (3.5'-4') to 370 mg/Kg for Auger Hole 1 (5.5'-6') and Auger Hole 2 (5.5'-6'). See Figure 4 for Delineation Plat and Table 1 for analysis. See Appendix D for entire analytical results.

SOIL REMEDIATION WORKPLAN

Etech proposes to complete remediation in accordance with NMOCD rules and regulations which will entail the following:

- Impacted soils will be excavated to appropriate depths based on delineation data and stockpiled on plastic awaiting disposal.
- During excavation activities soils will be field screened utilizing chloride test kits and a PID meter for determination of laboratory sampling and additional excavation, if warranted.
- Upon completion of the excavation, confirmation soil samples will be collected every two hundred (200) square feet from the base and sidewalls (representing no more than 50 linear feet) of the excavated areas. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary. Samples will be submitted to Permian Basin Environmental Labs of Texas (PBELAB) for analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015M, and Chlorides by EPA method 300.0.
- The impacted soils will be transported off-site for disposal at an NMOCD approved disposal facilty. Estimated 1,350 cubic yards of impacted soils based on delineation results.
- Upon completion of remediation and requisite soil sampling, the site will be backfilled with locally sourced, non-impacted "like" material from an approved off-site facility and brought back to grade.
- A closure report with final C-141 will be submitted to the NMOCD upon completion of remediation activities.

Once the soil remediation work plan has been approved by the NMOCD, Chevron will commence remediation activities. Upon completion of remediation activities, Chevron will complete the activities within ninety (90) days of approval and submit a *"Remediation Summary and Site Closure Request Report"* to the NMOCD.

If you have any questions, or if additional information is required, please feel free to call me at 432-563-2200 (office) or 432-653-9697 (cell).

Thank you,

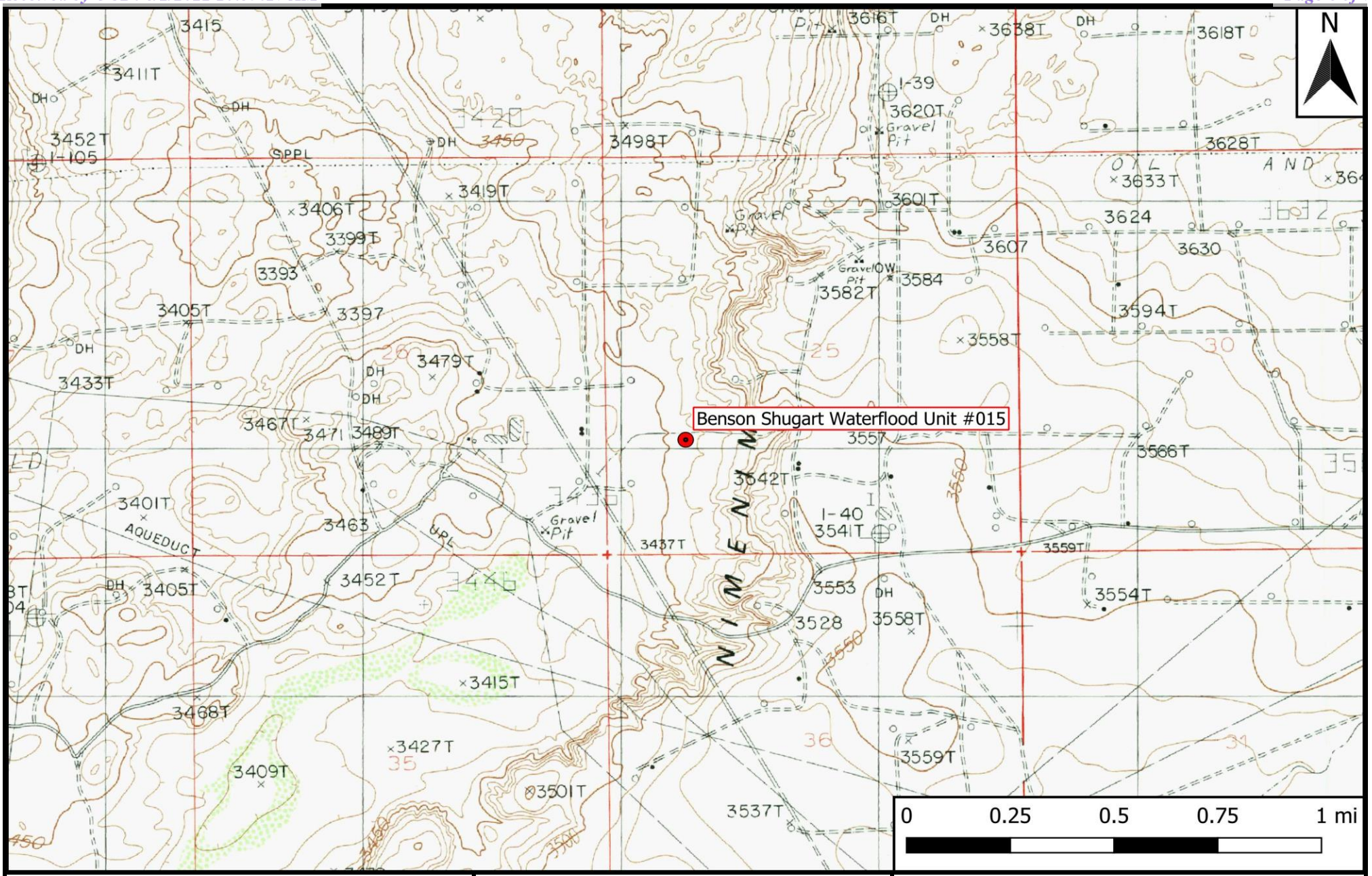
Jeffrey Kindley, P.G.
Senior Project Manager/Geologist
Etech Environmental & Safety Solutions, Inc.

Attachments:

Figure 1 – Topographic Map
Figure 2 – Aerial Proximity Map
Figure 3 – Site and Sample Location Map
Table 1 – Concentrations of BTEX, TPH, and Chloride in Soil
Appendix A: Initial Release Notification and Corrective Action Form C-141
Appendix B: Groundwater Data Maps and Supporting Water Well Data
Appendix C: Photographic Documentation
Appendix D: Laboratory Analytical

cc: File

Figure 1
Topographic Map



Legend

- Site Location

Figure 1

Topographic Map

Chevron Environmental Management Company

Benson Shugart Waterflood Unit #015

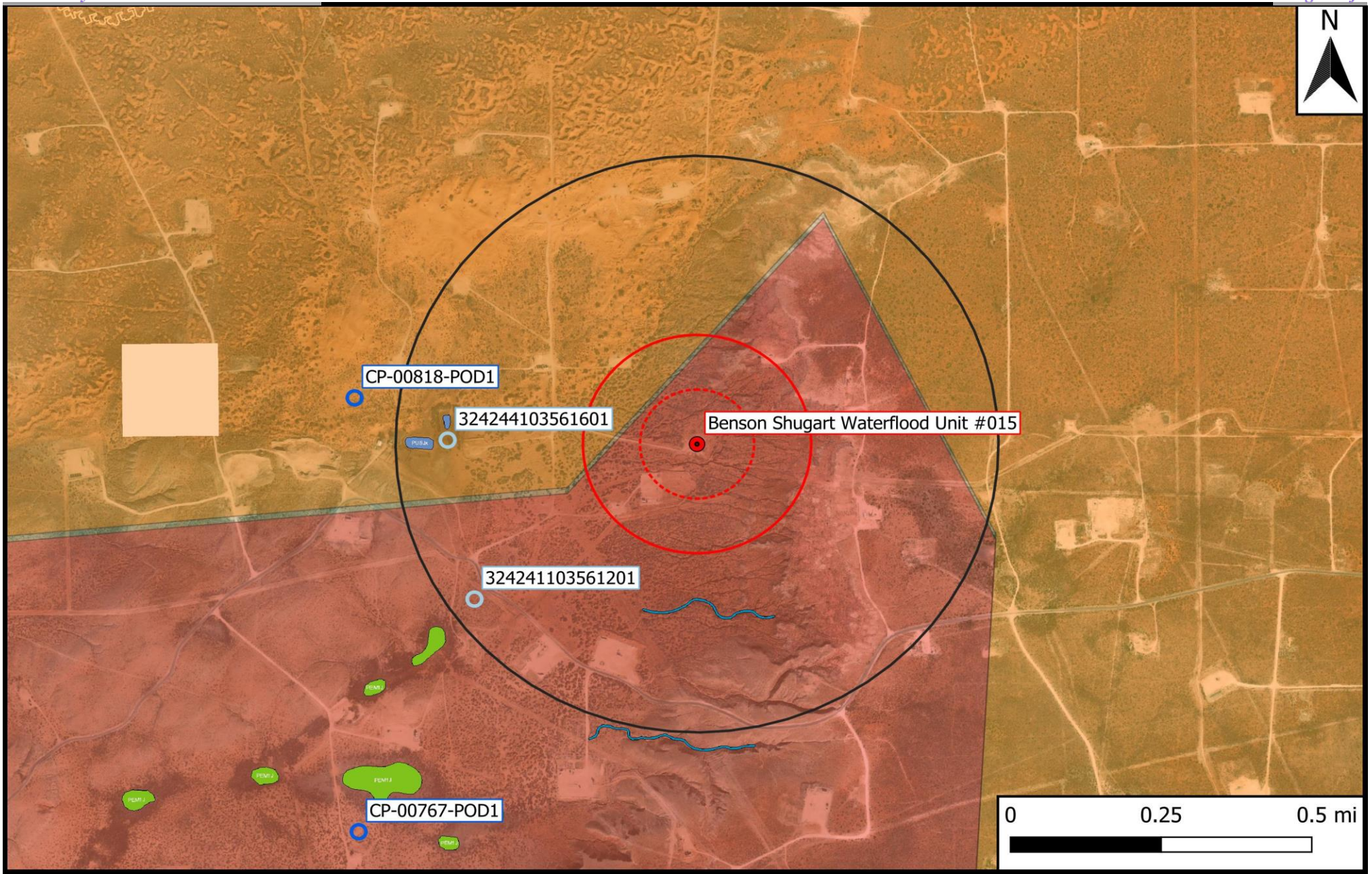
GPS: 32.715339, -103.930783

Eddy County

ETECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/29/22

Figure 2
Aerial Proximity Map



Legend

- Site Location
- Well - NMOSE
- Well - USGS
- Potash Mine Workings
- Medium/High Karst
- 500 Ft Radius
- 1000 Ft Radius
- 0.5 Mi Radius
- 1% Annual Flood Chance
- Lake/Freshwater Pond
- Emergent/Forested Wetlands
- Riverine

Figure 2

Aerial Proximity Map

Chevron Environmental Management Company

Benson Shugart Waterflood Unit #015

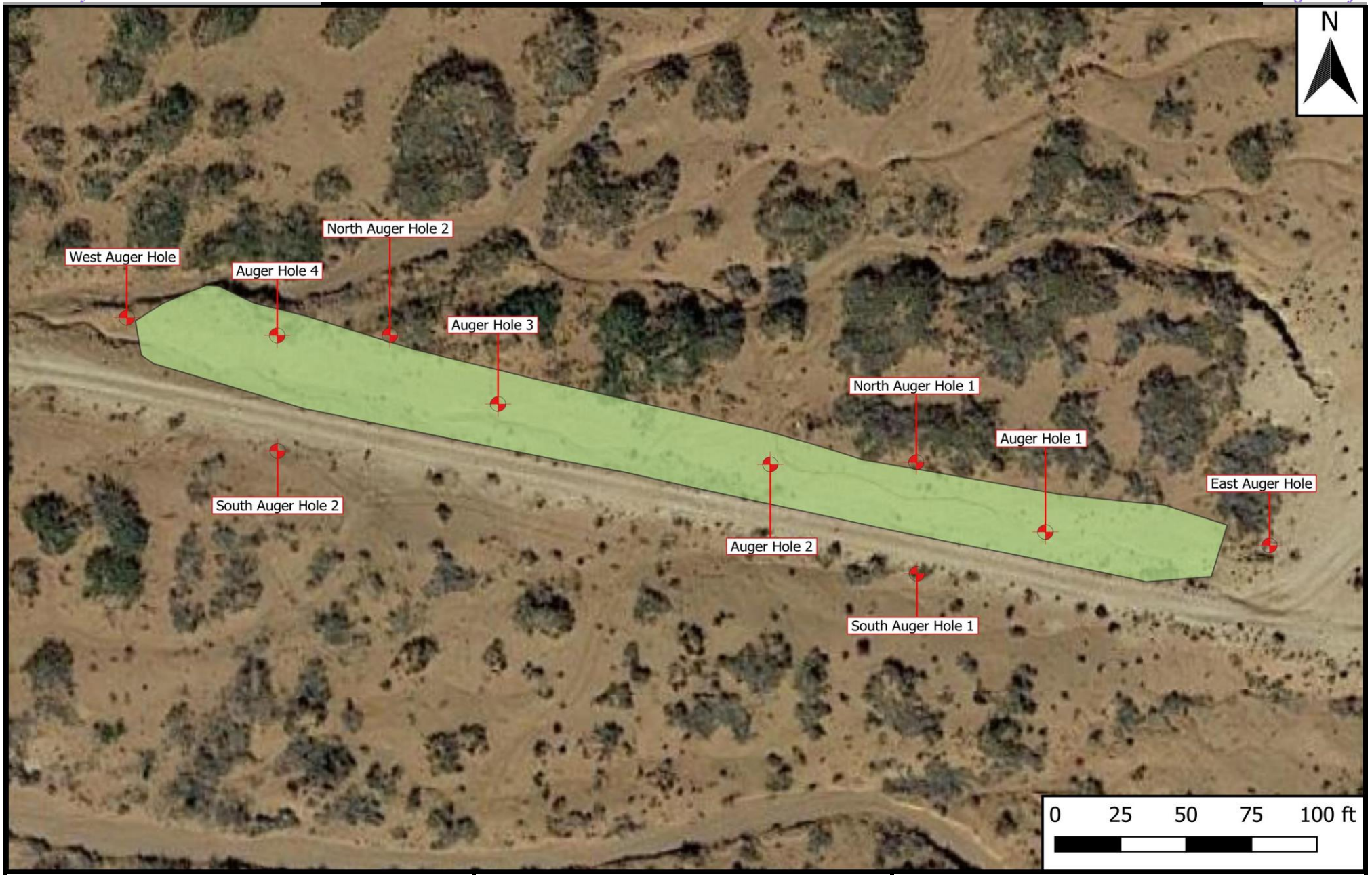
GPS: 32.715339, -103.930783

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/29/22

Figure 3
Site and Sample Location Map



Legend

- Sample Point
- Release Area

Figure 3

Site and Sample Location Map

Chevron Environmental Management Company

Benson Shugart Waterflood Unit #015

GPS: 32.715339, -103.930783

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/30/22

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

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
Chevron Environmental Management Company
Benson Shugart Waterflood Unit #015
NMOCD Ref. #: nMLB0526441458

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth (Feet)**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
East Auger Hole	4/6/2022	0-0.5	In-Situ	-	-	-	-	-	-	-	20.4
East Auger Hole	4/6/2022	3.5-4	In-Situ	-	-	-	-	-	-	-	99.5
North Auger Hole 1	4/6/2022	0-0.5	In-Situ	-	-	-	-	-	-	-	15.0
North Auger Hole 1	4/6/2022	3.5-4	In-Situ	-	-	-	-	-	-	-	97.8
North Auger Hole 2	4/6/2022	0-0.5	In-Situ	-	-	-	-	-	-	-	10.4
North Auger Hole 2	4/6/2022	3.5-4	In-Situ	-	-	-	-	-	-	-	314
South Auger Hole	4/6/2022	0-0.5	In-Situ	-	-	-	-	-	-	-	33.7
South Auger Hole	4/6/2022	3.5-4	In-Situ	-	-	-	-	-	-	-	8.16
South Auger Hole 1	4/6/2022	0-0.5	In-Situ	-	-	-	-	-	-	-	23.5
South Auger Hole 1	4/6/2022	3.5-4	In-Situ	-	-	-	-	-	-	-	<4.95
West Auger Hole	4/6/2022	0-0.5	In-Situ	-	-	-	-	-	-	-	16.3
West Auger Hole	4/6/2022	3.5-4	In-Situ	-	-	-	-	-	-	-	20.2
Auger Hole 1	1/5/2022	0-0.5	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	**10,000**
Auger Hole 1	1/5/2022	3.5-4	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**2,300**
Auger Hole 1	4/11/2022	5.5-6	In-Situ	-	-	-	-	-	-	-	370
Auger Hole 2	1/5/2022	0-0.5	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	**1,290**
Auger Hole 2	1/5/2022	3.5-4	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	**1,130**
Auger Hole 2	4/11/2022	5.5-6	In-Situ	-	-	-	-	-	-	-	370
Auger Hole 3	1/5/2022	0-0.5	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	**13,600**
Auger Hole 3	1/5/2022	3.5-4	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	**1,470**
Auger Hole 3	4/11/2022	5.5-6	In-Situ	-	-	-	-	-	-	-	369
Auger Hole 4	1/5/2022	0-0.5	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	**17,100**
Auger Hole 4	1/5/2022	3.5-4	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	**889**
Auger Hole 4	4/11/2022	5.5-6	In-Situ	-	-	-	-	-	-	-	73.9

Dash (-): Sample not analyzed for that constituent.
Bold: NMOCD Closure Criteria exceedance.
Red: NMOCD Reclamation Standard exceedance.

Appendix A

Initial Release Notification and Corrective Action Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

30-015-27712
nMLB052644458

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	CHESAPEAKE	Contact	BRADLEY G. BLEVINS
Address	504 CARLSBAD HWY HOBBS	Telephone No.	505 391-1462
Facility Name	BENSON SHUGHART INJ LINE #1	Facility Type	LEASE INJECTION

Surface Owner	Mineral Owner	Lease No.
		NM 01375

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	25	18S	30E					EDDY

Latitude N 32° 42' 49" Longitude W 103° 56' 36"

NATURE OF RELEASE

Type of Release	PRODUCED WATER	Volume of Release	200 BBL
Source of Release	INJECTION LINE	Date and Hour of Occurrence	Volume Recovered 150
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	Date and Hour of Discovery	8/19/05 1300
By Whom?	BRAD	If YES, To Whom?	MIKE BRATCHER
Was a Watercourse Reached?	☐ Yes ☒ No	Date and Hour	8/19/05 1300
		If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

PIPE LINE FAILURE
UTILIZED VAC TRUCKS TO REMOVE FREE PRODUCT AND START EXCAVATION

Describe Area Affected and Cleanup Action Taken.*

50 X 160 ALONG LEASE ROAD (WILL NOTIFY BEFORE SAMPLE COLLECTION FOR LAB)

REMOVE SATURATED SOIL TO LINED CONTAINMENT AND SEND TO CRI

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:		OIL CONSERVATION DIVISION	
Printed Name:	Bradley Blevins	Approved by District Supervisor:	TIM GUM by MB Mike Bratcher
Title:	Field Tech	Approval Date: 9/21/05	Expiration Date: N/A
E-mail Address:	bblevins@chkenergy.com	Conditions of Approval:	Attached ☒
Date:	8-25-05 Phone:		

* Attach Additional Sheets If Necessary

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _8-2-22_____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 08/02/2022

State of New Mexico
Oil Conservation Division

Incident ID	
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: _____ Title: _____

Signature: _____ Date: 8-2-22

email: _____ Telephone: _____

OCD Only

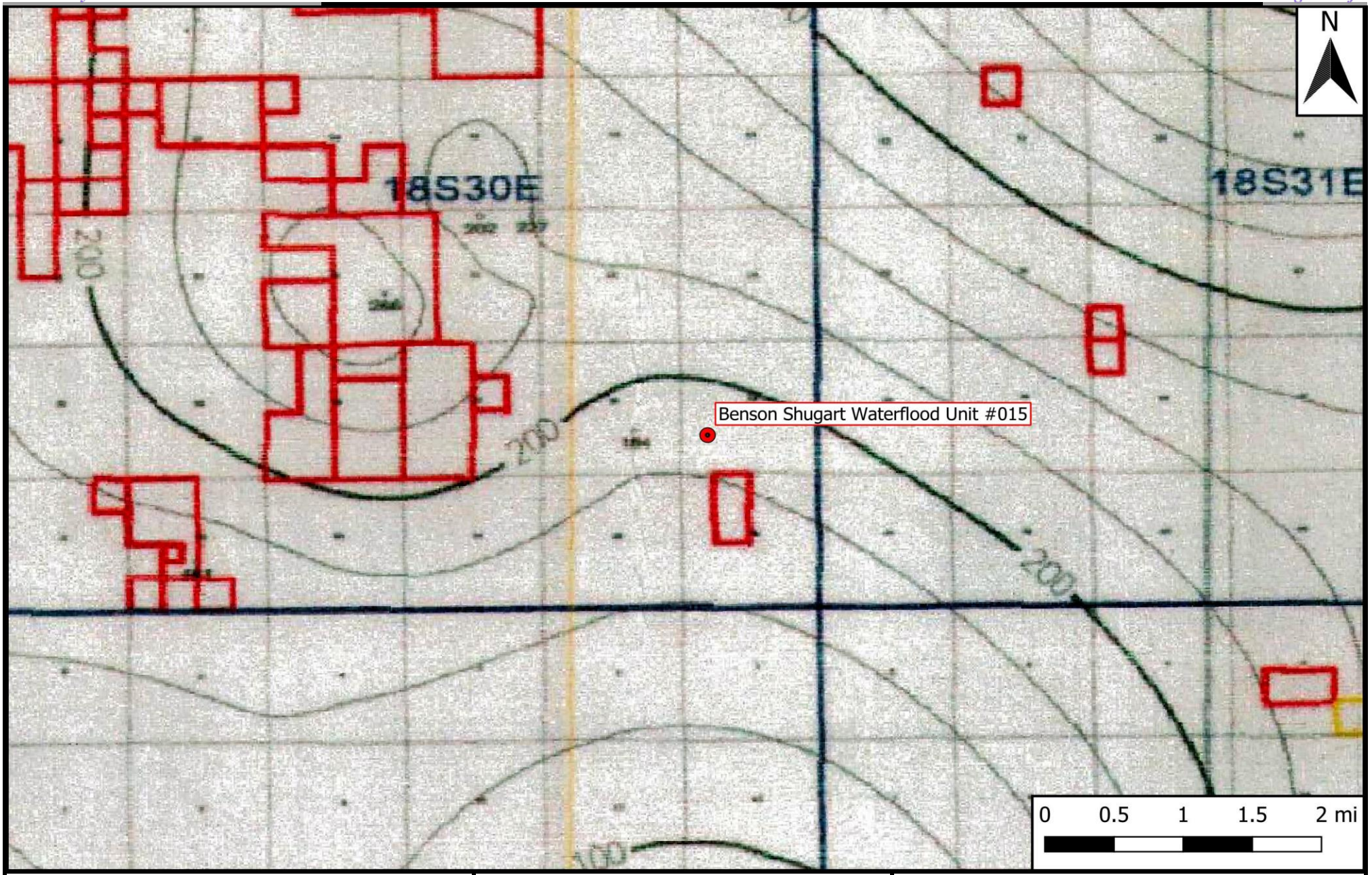
Received by: Jocelyn Harimon Date: _____

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

Signature: _____ Date: 12/8/2022

Appendix B

Groundwater Data Maps and Supporting Water Well Data



Legend

Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

Chevron Environmental Management Company

Benson Shugart Waterflood Unit #015

GPS: 32.715339, -103.930783

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/29/22

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	Depth Well	Depth Water	Water Column
CP 00818 POD1		CP	LE	1	4		26	18S	30E	599289	3620364*	923	240		
CP 00767 POD1		CP	ED	3	2		35	18S	30E	599300	3619158*	1406	500		

Average Depth to Water: --
Minimum Depth: --
Maximum Depth: --

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 600203.74 **Northing (Y):** 3620235.47 **Radius:** 1610

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

(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	Twn	Rng	X	Y
	CP 00818 POD1		1	4	26	18S	30E	599289	3620364*

Driller License: 122 **Driller Company:** UNKNOWN

Driller Name:

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

Log File Date: **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 20 GPM

Casing Size: 7.00 **Depth Well:** 240 feet **Depth Water:**

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

(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	Y
	CP 00767 POD1		3	2	35	18S	30E	599300	3619158*

Driller License: **Driller Company:**

Driller Name:

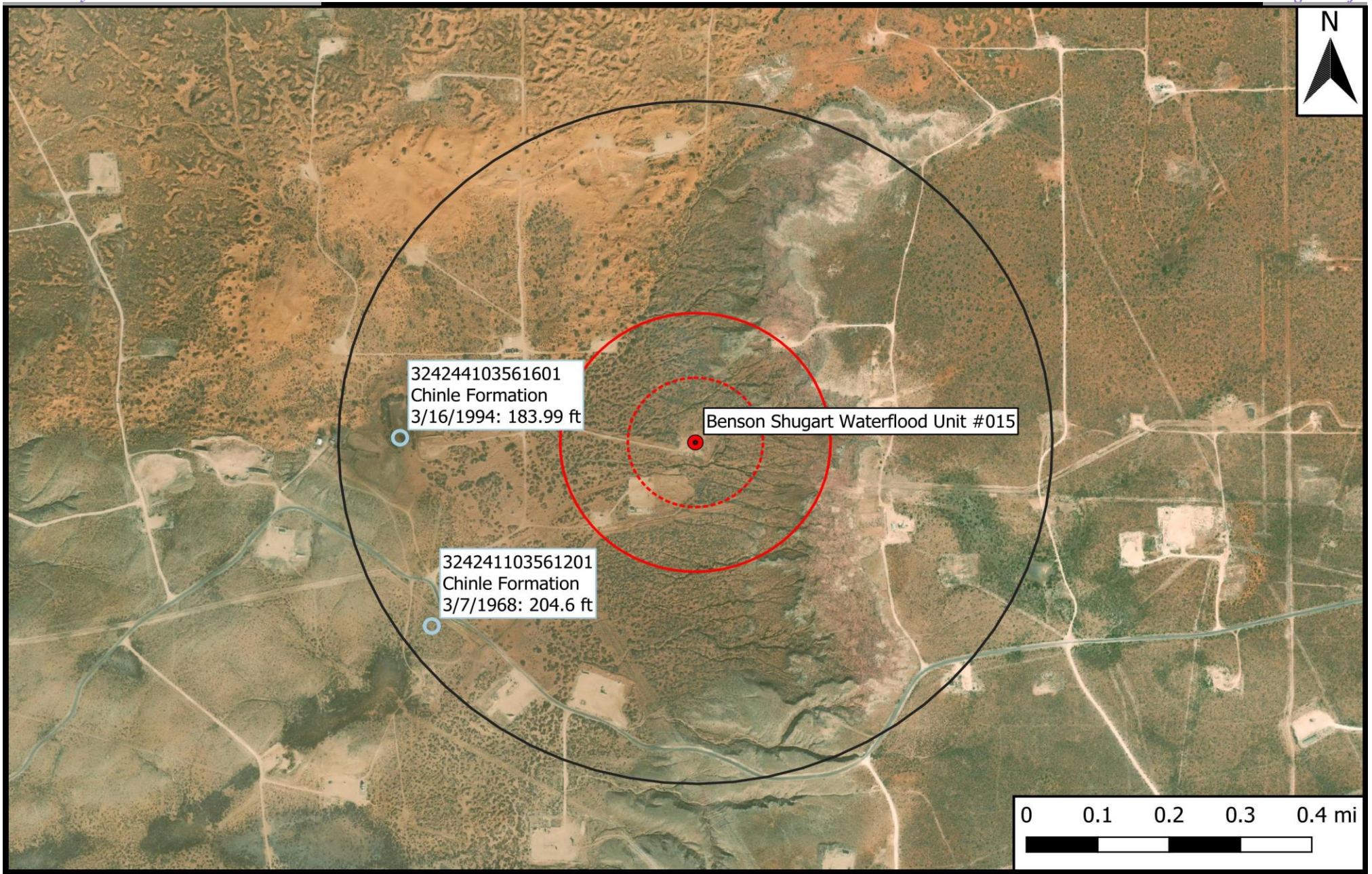
Drill Start Date: **Drill Finish Date:** **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 5.50 **Depth Well:** 500 feet **Depth Water:**

***UTM location was derived from PLSS - see Help**



Legend
- Site Location
- Well - USGS
- 500 Ft Radius
- 1000 Ft Radius
- 0.5 Mi Radius

Figure 5
USGS Well Proximity Map
Chevron Environmental Management Company
Benson Shugart Waterflood Unit #015
GPS: 32.715339, -103.930783
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 6/29/22

National Water Information System: Web Interface

USGS Water Resources

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

Click forNews Bulletins

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324241103561201

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

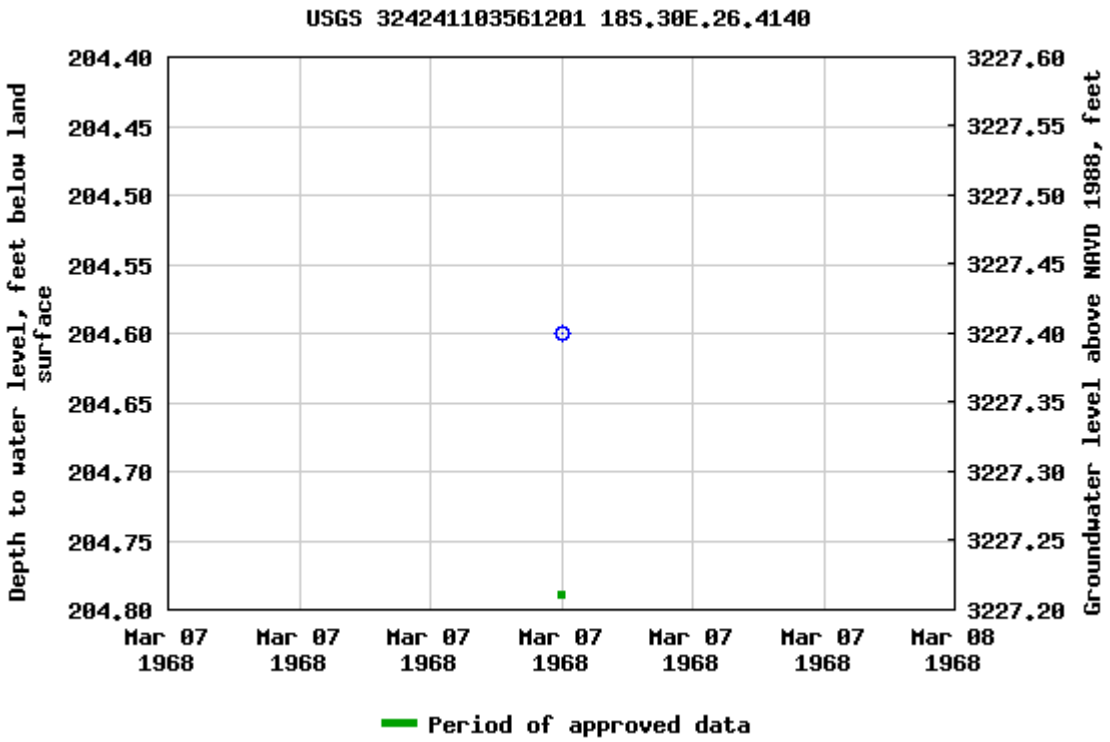
USGS 324241103561201 18S.30E.26.4140

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°42'41", Longitude 103°56'12" NAD27
Land-surface elevation 3,432 feet above NAVD88
The depth of the well is 230 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

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.
Download a presentation-quality graph

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

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-06-29 16:30:55 EDT
0.59 0.51 nadww01

National Water Information System: Web Interface

USGS Water Resources

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

Click forNews Bulletins

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324244103561601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

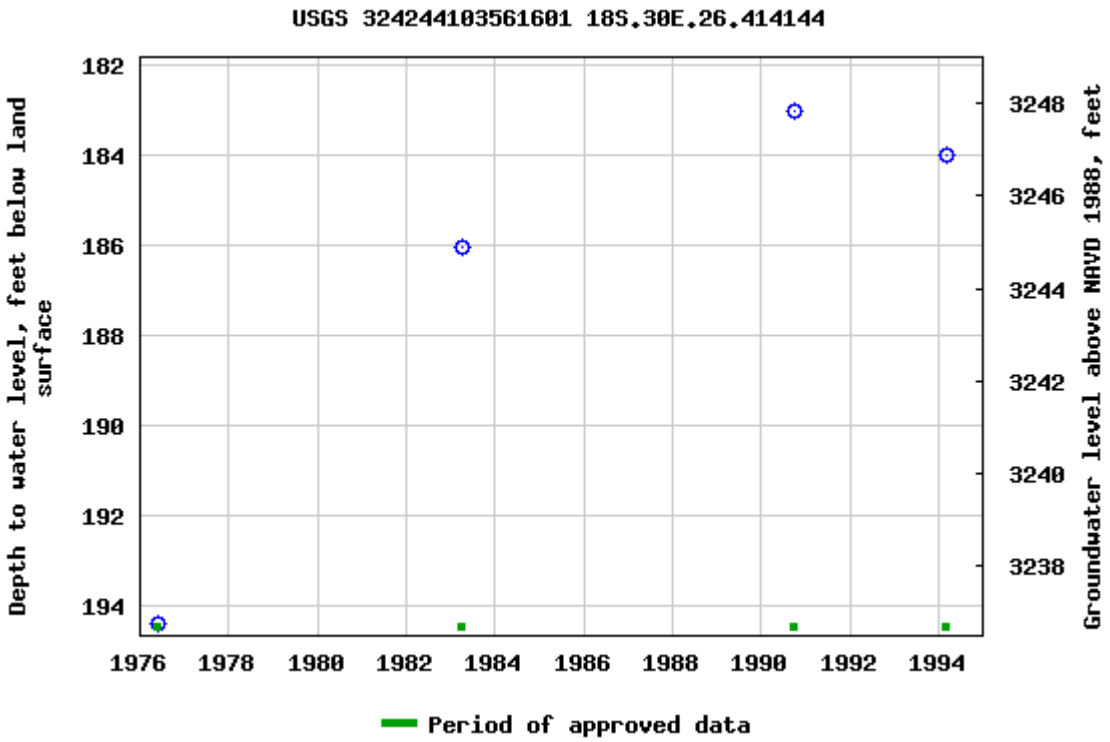
USGS 324244103561601 18S.30E.26.414144

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°42'55.8", Longitude 103°56'16.4" NAD83
Land-surface elevation 3,431 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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



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

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

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-06-29 16:30:56 EDT
0.59 0.53 nadww01

Appendix C

Photographic Documentation

Project Name: *Benson Shugart Waterflood Unit #015* ***Photographic Documentation***
Project No: *15306*

Photo No: **1.**	
Direction Taken: West	
Description: View during assessment and delineation event.	

Photo No: **2.**	
Direction Taken: West	
Description: View during assessment and delineation event.	

Project Name: *Benson Shugart Waterflood Unit #015* ***Photographic Documentation***
Project No: *15306*

Photo No: **3.**	
Direction Taken: East	
Description: View during assessment and delineation event.	

Photo No: **4.**	
Direction Taken: East	
Description: View during assessment and delineation event.	

Appendix D

Laboratory Analytical

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-9972-1
Client Project/Site: Benson Shugart Waterflood Unit #015

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: Brandon Wilson

JKramer

Authorized for release by:
1/13/2022 8:36:58 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Laboratory Job ID: 880-9972-1

Table of Contents

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 880-9972-1
Project/Site: Benson Shugart Waterflood Unit #015

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-9972-1

Job ID: 880-9972-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-9972-1

Receipt
The samples were received on 1/7/2022 1:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 880-16443 and analytical batch 880-16558 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-9972-1
Project/Site: Benson Shugart Waterflood Unit #015

Client Sample ID: Auger Hole 1
Lab Sample ID: 880-9972-1
Date Collected: 01/05/22 11:50
Matrix: Solid
Date Received: 01/07/22 13:05
Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 00:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 00:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 00:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/07/22 14:37	01/11/22 00:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 00:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/07/22 14:37	01/11/22 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/07/22 14:37*	*01/11/22 00:36*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*01/07/22 14:37*	*01/11/22 00:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/12/22 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/12/22 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 19:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 19:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*01/07/22 15:26*	*01/08/22 19:33*	*1*
o-Terphenyl	*75*		*70 - 130*	*01/07/22 15:26*	*01/08/22 19:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10000**		49.7		mg/Kg			01/13/22 16:19	10

Client Sample ID: Auger Hole 1
Lab Sample ID: 880-9972-2
Date Collected: 01/05/22 11:52
Matrix: Solid
Date Received: 01/07/22 13:05
Sample Depth: 42-48"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/07/22 14:37	01/11/22 00:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/22 14:37	01/11/22 00:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/22 14:37	01/11/22 00:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/22 14:37	01/11/22 00:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/22 14:37	01/11/22 00:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/22 14:37	01/11/22 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/07/22 14:37*	*01/11/22 00:56*	*1*

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-9972-1
Project/Site: Benson Shugart Waterflood Unit #015

Client Sample ID: Auger Hole 1
Lab Sample ID: 880-9972-2
Date Collected: 01/05/22 11:52
Matrix: Solid
Date Received: 01/07/22 13:05
Sample Depth: 42-48"

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/07/22 14:37*	*01/11/22 00:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/12/22 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/12/22 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 19:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 19:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*01/07/22 15:26*	*01/08/22 19:53*	*1*
o-Terphenyl	*78*		*70 - 130*	*01/07/22 15:26*	*01/08/22 19:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2300**		25.0		mg/Kg			01/13/22 13:33	5

Client Sample ID: Auger Hole 2
Lab Sample ID: 880-9972-3
Date Collected: 01/05/22 11:54
Matrix: Solid
Date Received: 01/07/22 13:05
Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:37	01/11/22 01:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:37	01/11/22 01:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:37	01/11/22 01:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/22 14:37	01/11/22 01:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:37	01/11/22 01:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/22 14:37	01/11/22 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/07/22 14:37*	*01/11/22 01:17*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*01/07/22 14:37*	*01/11/22 01:17*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/12/22 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/12/22 14:00	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-9972-1

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-9972-3
Matrix: Solid
Date Collected: 01/05/22 11:54
Date Received: 01/07/22 13:05
Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 15:26	01/08/22 20:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 15:26	01/08/22 20:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 15:26	01/08/22 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*01/07/22 15:26*	*01/08/22 20:13*	*1*
o-Terphenyl	*80*		*70 - 130*	*01/07/22 15:26*	*01/08/22 20:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1290**		4.95		mg/Kg			01/13/22 13:44	1

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-9972-4
Matrix: Solid
Date Collected: 01/05/22 11:56
Date Received: 01/07/22 13:05
Sample Depth: 42-48"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 01:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 01:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 01:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/22 14:37	01/11/22 01:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 01:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/22 14:37	01/11/22 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/07/22 14:37*	*01/11/22 01:37*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/07/22 14:37*	*01/11/22 01:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/12/22 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/12/22 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 15:26	01/08/22 20:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 15:26	01/08/22 20:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 15:26	01/08/22 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*01/07/22 15:26*	*01/08/22 20:33*	*1*
o-Terphenyl	*77*		*70 - 130*	*01/07/22 15:26*	*01/08/22 20:33*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-9972-1

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-9972-4
Matrix: Solid
Date Collected: 01/05/22 11:56
Date Received: 01/07/22 13:05
Sample Depth: 42-48"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1130		5.01		mg/Kg			01/13/22 14:20	1

Client Sample ID: Auger Hole 3

Lab Sample ID: 880-9972-5
Matrix: Solid
Date Collected: 01/05/22 11:58
Date Received: 01/07/22 13:05
Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 01:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 01:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 01:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/07/22 14:37	01/11/22 01:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 01:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/07/22 14:37	01/11/22 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/07/22 14:37*	*01/11/22 01:58*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/07/22 14:37*	*01/11/22 01:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/12/22 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/12/22 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 20:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 20:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*01/07/22 15:26*	*01/08/22 20:54*	*1*
o-Terphenyl	*77*		*70 - 130*	*01/07/22 15:26*	*01/08/22 20:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13600		99.8		mg/Kg			01/13/22 16:30	20

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-9972-1

Client Sample ID: Auger Hole 3

Lab Sample ID: 880-9972-6
Matrix: Solid
Date Collected: 01/05/22 12:00
Date Received: 01/07/22 13:05
Sample Depth: 42-48"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/07/22 14:37	01/11/22 02:18	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/07/22 14:37	01/11/22 02:18	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/07/22 14:37	01/11/22 02:18	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/07/22 14:37	01/11/22 02:18	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/07/22 14:37	01/11/22 02:18	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/07/22 14:37	01/11/22 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/07/22 14:37*	*01/11/22 02:18*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/07/22 14:37*	*01/11/22 02:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/12/22 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/12/22 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 15:26	01/08/22 21:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 15:26	01/08/22 21:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 15:26	01/08/22 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*01/07/22 15:26*	*01/08/22 21:14*	*1*
o-Terphenyl	*76*		*70 - 130*	*01/07/22 15:26*	*01/08/22 21:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1470**		24.8		mg/Kg			01/13/22 15:07	5

Client Sample ID: Auger Hole 4

Lab Sample ID: 880-9972-7
Matrix: Solid
Date Collected: 01/05/22 12:02
Date Received: 01/07/22 13:05
Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:37	01/11/22 04:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:37	01/11/22 04:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:37	01/11/22 04:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/22 14:37	01/11/22 04:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:37	01/11/22 04:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/22 14:37	01/11/22 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/07/22 14:37*	*01/11/22 04:08*	*1*

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-9972-1
Project/Site: Benson Shugart Waterflood Unit #015

Client Sample ID: Auger Hole 4
Lab Sample ID: 880-9972-7
Matrix: Solid
Date Collected: 01/05/22 12:02
Date Received: 01/07/22 13:05
Sample Depth: 0-6"

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*01/07/22 14:37*	*01/11/22 04:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/12/22 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/12/22 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 21:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 21:35	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*01/07/22 15:26*	*01/08/22 21:35*	*1*
o-Terphenyl	*75*		*70 - 130*	*01/07/22 15:26*	*01/08/22 21:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17100**		99.4		mg/Kg			01/13/22 16:42	20

Client Sample ID: Auger Hole 4
Lab Sample ID: 880-9972-8
Matrix: Solid
Date Collected: 01/05/22 12:04
Date Received: 01/07/22 13:05
Sample Depth: 42-48"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 04:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 04:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 04:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/07/22 14:37	01/11/22 04:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/11/22 04:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/07/22 14:37	01/11/22 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*165*	*S1+*	*70 - 130*	*01/07/22 14:37*	*01/11/22 04:29*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*01/07/22 14:37*	*01/11/22 04:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/12/22 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/12/22 14:00	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-9972-1
Project/Site: Benson Shugart Waterflood Unit #015

Client Sample ID: Auger Hole 4
Lab Sample ID: 880-9972-8

Date Collected: 01/05/22 12:04
Matrix: Solid
Date Received: 01/07/22 13:05
Sample Depth: 42-48"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 21:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 21:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 15:26	01/08/22 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*01/07/22 15:26*	*01/08/22 21:55*	*1*
o-Terphenyl	*76*		*70 - 130*	*01/07/22 15:26*	*01/08/22 21:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**889**		4.98		mg/Kg			01/13/22 15:31	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Job ID: 880-9972-1
Project/Site: Benson Shugart Waterflood Unit #015

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9970-A-1-A MS	Matrix Spike	103	94
880-9970-A-1-B MSD	Matrix Spike Duplicate	106	95
880-9972-1	Auger Hole 1	111	103
880-9972-2	Auger Hole 1	117	95
880-9972-3	Auger Hole 2	119	78
880-9972-4	Auger Hole 2	115	100
880-9972-5	Auger Hole 3	120	97
880-9972-6	Auger Hole 3	114	95
880-9972-7	Auger Hole 4	99	74
880-9972-8	Auger Hole 4	165 S1+	80
LCS 880-16282/1-A	Lab Control Sample	102	98
LCSD 880-16282/2-A	Lab Control Sample Dup	107	100
MB 880-16273/5-A	Method Blank	120	108
MB 880-16282/5-A	Method Blank	120	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-9968-A-1-C MS	Matrix Spike	76	73
880-9968-A-1-D MSD	Matrix Spike Duplicate	78	74
880-9972-1	Auger Hole 1	70	75
880-9972-2	Auger Hole 1	71	78
880-9972-3	Auger Hole 2	74	80
880-9972-4	Auger Hole 2	72	77
880-9972-5	Auger Hole 3	72	77
880-9972-6	Auger Hole 3	73	76
880-9972-7	Auger Hole 4	71	75
880-9972-8	Auger Hole 4	71	76
LCS 880-16294/2-A	Lab Control Sample	112	113
LCSD 880-16294/3-A	Lab Control Sample Dup	112	111
MB 880-16294/1-A	Method Blank	75	82

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-9972-1
Project/Site: Benson Shugart Waterflood Unit #015

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16273/5-A
Matrix: Solid
Analysis Batch: 16341

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:21	01/10/22 10:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:21	01/10/22 10:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:21	01/10/22 10:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/22 14:21	01/10/22 10:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:21	01/10/22 10:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/22 14:21	01/10/22 10:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/07/22 14:21*	*01/10/22 10:50*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/07/22 14:21*	*01/10/22 10:50*	*1*

Lab Sample ID: MB 880-16282/5-A
Matrix: Solid
Analysis Batch: 16341

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/10/22 22:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/10/22 22:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/10/22 22:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/22 14:37	01/10/22 22:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:37	01/10/22 22:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/22 14:37	01/10/22 22:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/07/22 14:37*	*01/10/22 22:45*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/07/22 14:37*	*01/10/22 22:45*	*1*

Lab Sample ID: LCS 880-16282/1-A
Matrix: Solid
Analysis Batch: 16341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09284		mg/Kg		93	70 - 130
Toluene	0.100	0.09530		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09449		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1883		mg/Kg		94	70 - 130
o-Xylene	0.100	0.08928		mg/Kg		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-16282/2-A
Matrix: Solid
Analysis Batch: 16341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16282

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09551		mg/Kg		96	70 - 130	3	35

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-9972-1
Project/Site: Benson Shugart Waterflood Unit #015

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

Lab Sample ID: LCSD 880-16282/2-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 16341
Prep Batch: 16282

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.09452		mg/Kg		95	70 - 130	1	35
Ethylbenzene			0.100	0.09939		mg/Kg		99	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1946		mg/Kg		97	70 - 130	3	35
o-Xylene			0.100	0.09623		mg/Kg		96	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-9970-A-1-A MS
Client Sample ID: Matrix Spike
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 16341
Prep Batch: 16282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0998	0.07914		mg/Kg		79	70 - 130
Toluene	<0.00200	U	0.0998	0.08145		mg/Kg		82	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.08486		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1614		mg/Kg		81	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08289		mg/Kg		83	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-9970-A-1-B MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 16341
Prep Batch: 16282

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07850		mg/Kg		79	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.08377		mg/Kg		84	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.08307		mg/Kg		83	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1604		mg/Kg		80	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.08218		mg/Kg		82	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

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

Lab Sample ID: MB 880-16294/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 16326
Prep Batch: 16294

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 15:26	01/08/22 13:27	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-9972-1

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

Lab Sample ID: MB 880-16294/1-A
Matrix: Solid
Analysis Batch: 16326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16294

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 15:26	01/08/22 13:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 15:26	01/08/22 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*01/07/22 15:26*	*01/08/22 13:27*	*1*
o-Terphenyl	*82*		*70 - 130*	*01/07/22 15:26*	*01/08/22 13:27*	*1*

Lab Sample ID: LCS 880-16294/2-A
Matrix: Solid
Analysis Batch: 16326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16294

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	869.2		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	908.2		mg/Kg		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: LCSD 880-16294/3-A
Matrix: Solid
Analysis Batch: 16326

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16294

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	850.2		mg/Kg		85	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	861.0		mg/Kg		86	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*111*		*70 - 130*

Lab Sample ID: 880-9968-A-1-C MS
Matrix: Solid
Analysis Batch: 16326

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 16294

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	952.2		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	849.7		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*73*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-9972-1

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

Lab Sample ID: 880-9968-A-1-D MSD
Matrix: Solid
Analysis Batch: 16326

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 16294

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	936.4		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	869.7		mg/Kg		83	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16443/1-A
Matrix: Solid
Analysis Batch: 16558

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/13/22 08:45	1

Lab Sample ID: LCS 880-16443/2-A
Matrix: Solid
Analysis Batch: 16558

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	243.0		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-16443/3-A
Matrix: Solid
Analysis Batch: 16558

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	246.7		mg/Kg		99	90 - 110	2	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-9972-1

GC VOA

Prep Batch: 16273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16273/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 16282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9972-1	Auger Hole 1	Total/NA	Solid	5035	
880-9972-2	Auger Hole 1	Total/NA	Solid	5035	
880-9972-3	Auger Hole 2	Total/NA	Solid	5035	
880-9972-4	Auger Hole 2	Total/NA	Solid	5035	
880-9972-5	Auger Hole 3	Total/NA	Solid	5035	
880-9972-6	Auger Hole 3	Total/NA	Solid	5035	
880-9972-7	Auger Hole 4	Total/NA	Solid	5035	
880-9972-8	Auger Hole 4	Total/NA	Solid	5035	
MB 880-16282/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16282/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16282/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9970-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-9970-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 16341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9972-1	Auger Hole 1	Total/NA	Solid	8021B	16282
880-9972-2	Auger Hole 1	Total/NA	Solid	8021B	16282
880-9972-3	Auger Hole 2	Total/NA	Solid	8021B	16282
880-9972-4	Auger Hole 2	Total/NA	Solid	8021B	16282
880-9972-5	Auger Hole 3	Total/NA	Solid	8021B	16282
880-9972-6	Auger Hole 3	Total/NA	Solid	8021B	16282
880-9972-7	Auger Hole 4	Total/NA	Solid	8021B	16282
880-9972-8	Auger Hole 4	Total/NA	Solid	8021B	16282
MB 880-16273/5-A	Method Blank	Total/NA	Solid	8021B	16273
MB 880-16282/5-A	Method Blank	Total/NA	Solid	8021B	16282
LCS 880-16282/1-A	Lab Control Sample	Total/NA	Solid	8021B	16282
LCSD 880-16282/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16282
880-9970-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	16282
880-9970-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16282

Analysis Batch: 16668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9972-1	Auger Hole 1	Total/NA	Solid	Total BTEX	
880-9972-2	Auger Hole 1	Total/NA	Solid	Total BTEX	
880-9972-3	Auger Hole 2	Total/NA	Solid	Total BTEX	
880-9972-4	Auger Hole 2	Total/NA	Solid	Total BTEX	
880-9972-5	Auger Hole 3	Total/NA	Solid	Total BTEX	
880-9972-6	Auger Hole 3	Total/NA	Solid	Total BTEX	
880-9972-7	Auger Hole 4	Total/NA	Solid	Total BTEX	
880-9972-8	Auger Hole 4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 16294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9972-1	Auger Hole 1	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-9972-1

GC Semi VOA (Continued)

Prep Batch: 16294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9972-2	Auger Hole 1	Total/NA	Solid	8015NM Prep	
880-9972-3	Auger Hole 2	Total/NA	Solid	8015NM Prep	
880-9972-4	Auger Hole 2	Total/NA	Solid	8015NM Prep	
880-9972-5	Auger Hole 3	Total/NA	Solid	8015NM Prep	
880-9972-6	Auger Hole 3	Total/NA	Solid	8015NM Prep	
880-9972-7	Auger Hole 4	Total/NA	Solid	8015NM Prep	
880-9972-8	Auger Hole 4	Total/NA	Solid	8015NM Prep	
MB 880-16294/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16294/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16294/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9968-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9968-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9972-1	Auger Hole 1	Total/NA	Solid	8015B NM	16294
880-9972-2	Auger Hole 1	Total/NA	Solid	8015B NM	16294
880-9972-3	Auger Hole 2	Total/NA	Solid	8015B NM	16294
880-9972-4	Auger Hole 2	Total/NA	Solid	8015B NM	16294
880-9972-5	Auger Hole 3	Total/NA	Solid	8015B NM	16294
880-9972-6	Auger Hole 3	Total/NA	Solid	8015B NM	16294
880-9972-7	Auger Hole 4	Total/NA	Solid	8015B NM	16294
880-9972-8	Auger Hole 4	Total/NA	Solid	8015B NM	16294
MB 880-16294/1-A	Method Blank	Total/NA	Solid	8015B NM	16294
LCS 880-16294/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16294
LCSD 880-16294/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16294
880-9968-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	16294
880-9968-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16294

Analysis Batch: 16554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9972-1	Auger Hole 1	Total/NA	Solid	8015 NM	
880-9972-2	Auger Hole 1	Total/NA	Solid	8015 NM	
880-9972-3	Auger Hole 2	Total/NA	Solid	8015 NM	
880-9972-4	Auger Hole 2	Total/NA	Solid	8015 NM	
880-9972-5	Auger Hole 3	Total/NA	Solid	8015 NM	
880-9972-6	Auger Hole 3	Total/NA	Solid	8015 NM	
880-9972-7	Auger Hole 4	Total/NA	Solid	8015 NM	
880-9972-8	Auger Hole 4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 16443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9972-1	Auger Hole 1	Soluble	Solid	DI Leach	
880-9972-2	Auger Hole 1	Soluble	Solid	DI Leach	
880-9972-3	Auger Hole 2	Soluble	Solid	DI Leach	
880-9972-4	Auger Hole 2	Soluble	Solid	DI Leach	
880-9972-5	Auger Hole 3	Soluble	Solid	DI Leach	
880-9972-6	Auger Hole 3	Soluble	Solid	DI Leach	
880-9972-7	Auger Hole 4	Soluble	Solid	DI Leach	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-9972-1

HPLC/IC (Continued)

Leach Batch: 16443 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9972-8	Auger Hole 4	Soluble	Solid	DI Leach	
MB 880-16443/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16443/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16443/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 16558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9972-1	Auger Hole 1	Soluble	Solid	300.0	16443
880-9972-2	Auger Hole 1	Soluble	Solid	300.0	16443
880-9972-3	Auger Hole 2	Soluble	Solid	300.0	16443
880-9972-4	Auger Hole 2	Soluble	Solid	300.0	16443
880-9972-5	Auger Hole 3	Soluble	Solid	300.0	16443
880-9972-6	Auger Hole 3	Soluble	Solid	300.0	16443
880-9972-7	Auger Hole 4	Soluble	Solid	300.0	16443
880-9972-8	Auger Hole 4	Soluble	Solid	300.0	16443
MB 880-16443/1-A	Method Blank	Soluble	Solid	300.0	16443
LCS 880-16443/2-A	Lab Control Sample	Soluble	Solid	300.0	16443
LCSD 880-16443/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16443

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 880-9972-1
Project/Site: Benson Shugart Waterflood Unit #015

Client Sample ID: Auger Hole 1
Lab Sample ID: 880-9972-1
Date Collected: 01/05/22 11:50
Matrix: Solid
Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16282	01/07/22 14:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16341	01/11/22 00:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16668	01/12/22 13:10	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/12/22 14:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16294	01/07/22 15:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16326	01/08/22 19:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16443	01/10/22 13:40	CH	XEN MID
Soluble	Analysis	300.0		10			16558	01/13/22 16:19	SC	XEN MID

Client Sample ID: Auger Hole 1
Lab Sample ID: 880-9972-2
Date Collected: 01/05/22 11:52
Matrix: Solid
Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	16282	01/07/22 14:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16341	01/11/22 00:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16668	01/12/22 13:10	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/12/22 14:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16294	01/07/22 15:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16326	01/08/22 19:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16443	01/10/22 13:40	CH	XEN MID
Soluble	Analysis	300.0		5			16558	01/13/22 13:33	SC	XEN MID

Client Sample ID: Auger Hole 2
Lab Sample ID: 880-9972-3
Date Collected: 01/05/22 11:54
Matrix: Solid
Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	16282	01/07/22 14:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16341	01/11/22 01:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16668	01/12/22 13:10	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/12/22 14:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16294	01/07/22 15:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16326	01/08/22 20:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16443	01/10/22 13:40	CH	XEN MID
Soluble	Analysis	300.0		1			16558	01/13/22 13:44	SC	XEN MID

Client Sample ID: Auger Hole 2
Lab Sample ID: 880-9972-4
Date Collected: 01/05/22 11:56
Matrix: Solid
Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16282	01/07/22 14:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16341	01/11/22 01:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16668	01/12/22 13:10	AJ	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-9972-1

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-9972-4
Matrix: Solid
Date Collected: 01/05/22 11:56
Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16554	01/12/22 14:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16294	01/07/22 15:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16326	01/08/22 20:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	16443	01/10/22 13:40	CH	XEN MID
Soluble	Analysis	300.0		1			16558	01/13/22 14:20	SC	XEN MID

Client Sample ID: Auger Hole 3

Lab Sample ID: 880-9972-5
Matrix: Solid
Date Collected: 01/05/22 11:58
Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	16282	01/07/22 14:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16341	01/11/22 01:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16668	01/12/22 13:10	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/12/22 14:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16294	01/07/22 15:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16326	01/08/22 20:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16443	01/10/22 13:40	CH	XEN MID
Soluble	Analysis	300.0		20			16558	01/13/22 16:30	SC	XEN MID

Client Sample ID: Auger Hole 3

Lab Sample ID: 880-9972-6
Matrix: Solid
Date Collected: 01/05/22 12:00
Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	16282	01/07/22 14:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16341	01/11/22 02:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16668	01/12/22 13:10	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/12/22 14:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16294	01/07/22 15:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16326	01/08/22 21:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16443	01/10/22 13:40	CH	XEN MID
Soluble	Analysis	300.0		5			16558	01/13/22 15:07	SC	XEN MID

Client Sample ID: Auger Hole 4

Lab Sample ID: 880-9972-7
Matrix: Solid
Date Collected: 01/05/22 12:02
Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	16282	01/07/22 14:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16341	01/11/22 04:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16668	01/12/22 13:10	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/12/22 14:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16294	01/07/22 15:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16326	01/08/22 21:35	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 880-9972-1
Project/Site: Benson Shugart Waterflood Unit #015

Client Sample ID: Auger Hole 4
Lab Sample ID: 880-9972-7
Date Collected: 01/05/22 12:02
Matrix: Solid
Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	16443	01/10/22 13:40	CH	XEN MID
Soluble	Analysis	300.0		20			16558	01/13/22 16:42	SC	XEN MID

Client Sample ID: Auger Hole 4
Lab Sample ID: 880-9972-8
Date Collected: 01/05/22 12:04
Matrix: Solid
Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16282	01/07/22 14:37	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16341	01/11/22 04:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16668	01/12/22 13:10	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/12/22 14:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16294	01/07/22 15:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16326	01/08/22 21:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16443	01/10/22 13:40	CH	XEN MID
Soluble	Analysis	300.0		1			16558	01/13/22 15:31	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 880-9972-1
Project/Site: Benson Shugart Waterflood Unit #015

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Job ID: 880-9972-1
Project/Site: Benson Shugart Waterflood Unit #015

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-9972-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-9972-1	Auger Hole 1	Solid	01/05/22 11:50	01/07/22 13:05	0-6"
880-9972-2	Auger Hole 1	Solid	01/05/22 11:52	01/07/22 13:05	42-48"
880-9972-3	Auger Hole 2	Solid	01/05/22 11:54	01/07/22 13:05	0-6"
880-9972-4	Auger Hole 2	Solid	01/05/22 11:56	01/07/22 13:05	42-48"
880-9972-5	Auger Hole 3	Solid	01/05/22 11:58	01/07/22 13:05	0-6"
880-9972-6	Auger Hole 3	Solid	01/05/22 12:00	01/07/22 13:05	42-48"
880-9972-7	Auger Hole 4	Solid	01/05/22 12:02	01/07/22 13:05	0-6"
880-9972-8	Auger Hole 4	Solid	01/05/22 12:04	01/07/22 13:05	42-48"

Chain of Custody

XENCO LABORATORIES

Houston TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock TX (806)794-1296
Hobbs NM (575-392-7550) Phoenix AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000)
www xenco com

Work Order No: 9972

Page 1 of 1

1/13/2022

Project Manager	Brandon Wilson	Bill to (if different)	
Company Name	Etech Environmental	Company Name	
Address	13000 W CR 100	Address	
City, State ZIP	Odessa, Tx. 79765	City, State ZIP	
Phone	432-563-2200	Email	brandon@etechenv com, blake@etechenv com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Benson Shugart Waterflood Unit #015	Turn Around	
Project Number	15306	Routine	☒
P O Number	15306	Rush	
Sampler's Name	Blake Estep	Due Date	

SAMPLE RECEIPT				
Temp Blank.	Yes (No)	Wet Ice	(Yes) No	
Temperature (°C)	53/54	Thermometer ID	IR8	
Received Intact.	(Yes) No			
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-.10	
Sample Custody Seals	Yes No (N/A)	Total Containers		

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4 30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH 8015M	BETEX 8021B	Chlorides	Sample Comments
Auger Hole 1	S	1/5/2022	11 50	0-6"	1	X	X	X	
Auger Hole 1	S	1/5/2022	11 52	42-48"	1	X	X	X	
Auger Hole 2	S	1/5/2022	11 54	0-6"	1	X	X	X	
Auger Hole 2	S	1/5/2022	11 56	42-48"	1	X	X	X	
Auger Hole 3	S	1/5/2022	11 58	0-6"	1	X	X	X	
Auger Hole 3	S	1/5/2022	12 00	42-48"	1	X	X	X	
Auger Hole 4	S	1/5/2022	12 02	0-6"	1	X	X	X	
Auger Hole 4	S	1/5/2022	12 04	42-48"	1	X	X	X	

880-9972 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date 051418 Rev 2018 1

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions Job Number: 880-9972-1

Login Number: 9972 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-13750-1
Client Project/Site: Benson Shugart Waterflood Unit #015

For:
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Attn: Brandon Wilson

JKramer

Authorized for release by:
4/20/2022 7:34:13 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Laboratory Job ID: 880-13750-1

Table of Contents

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 880-13750-1
Project/Site: Benson Shugart Waterflood Unit #015

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-13750-1

Job ID: 880-13750-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-13750-1

Receipt

The samples were received on 4/14/2022 4:29 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-13750-1
Project/Site: Benson Shugart Waterflood Unit #015

Client Sample ID: East Auger Hole
Lab Sample ID: 880-13750-1
Date Collected: 04/06/22 10:30
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 0-6"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.4		4.97		mg/Kg			04/19/22 15:01	1

Client Sample ID: East Auger Hole
Lab Sample ID: 880-13750-2
Date Collected: 04/06/22 10:32
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 42-48"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.5		5.00		mg/Kg			04/19/22 15:07	1

Client Sample ID: North Auger Hole 1
Lab Sample ID: 880-13750-3
Date Collected: 04/06/22 10:34
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 0-6"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.0		4.99		mg/Kg			04/19/22 15:27	1

Client Sample ID: North Auger Hole 1
Lab Sample ID: 880-13750-4
Date Collected: 04/06/22 10:36
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 42-48"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.8		4.96		mg/Kg			04/19/22 15:33	1

Client Sample ID: North Auger Hole 2
Lab Sample ID: 880-13750-5
Date Collected: 04/06/22 10:38
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 0-6"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		5.02		mg/Kg			04/19/22 15:52	1

Client Sample ID: North Auger Hole 2
Lab Sample ID: 880-13750-6
Date Collected: 04/06/22 10:40
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 42-48"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	314		5.04		mg/Kg			04/19/22 15:58	1

Client Sample Results

Client: Etech Environmental & Safety Solutions Job ID: 880-13750-1
Project/Site: Benson Shugart Waterflood Unit #015

Client Sample ID: West Auger Hole — Lab Sample ID: 880-13750-7

Date Collected: 04/06/22 10:42
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 0-6"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.3		4.97		mg/Kg			04/19/22 16:05	1

Client Sample ID: West Auger Hole — Lab Sample ID: 880-13750-8

Date Collected: 04/06/22 10:44
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 42-48"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.2		4.97		mg/Kg			04/19/22 16:11	1

Client Sample ID: South Auger Hole 1 — Lab Sample ID: 880-13750-9

Date Collected: 04/06/22 10:46
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 0-6"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			04/19/22 16:17	1

Client Sample ID: South Auger Hole 1 — Lab Sample ID: 880-13750-10

Date Collected: 04/06/22 10:48
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 42-48"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.5		4.99		mg/Kg			04/19/22 16:24	1

Client Sample ID: South Auger Hole — Lab Sample ID: 880-13750-11

Date Collected: 04/06/22 10:50
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 0-6"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.7		5.03		mg/Kg			04/19/22 16:30	1

Client Sample ID: South Auger Hole — Lab Sample ID: 880-13750-12

Date Collected: 04/06/22 10:52
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 66-72"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.16		4.99		mg/Kg			04/18/22 13:01	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-13750-1
Project/Site: Benson Shugart Waterflood Unit #015

Client Sample ID: Auger Hole 1
Lab Sample ID: 880-13750-13
Date Collected: 04/11/22 10:00
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 66-72"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370		5.02		mg/Kg			04/18/22 13:09	1

Client Sample ID: Auger Hole 2
Lab Sample ID: 880-13750-14
Date Collected: 04/11/22 10:02
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 66-72"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370		4.99		mg/Kg			04/18/22 13:18	1

Client Sample ID: Auger Hole 3
Lab Sample ID: 880-13750-15
Date Collected: 04/11/22 10:04
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 66-72"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	369		4.95		mg/Kg			04/18/22 13:27	1

Client Sample ID: Auger Hole 4
Lab Sample ID: 880-13750-16
Date Collected: 04/11/22 10:06
Matrix: Solid
Date Received: 04/14/22 16:29
Sample Depth: 66-72"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.9		5.03		mg/Kg			04/18/22 13:36	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-13750-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23649/1-A
Matrix: Solid
Analysis Batch: 23722

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/18/22 08:55	1

Lab Sample ID: LCS 880-23649/2-A
Matrix: Solid
Analysis Batch: 23722

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.6		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-23649/3-A
Matrix: Solid
Analysis Batch: 23722

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	242.7		mg/Kg		97	90 - 110	7	20

Lab Sample ID: 880-13752-A-1-B MS
Matrix: Solid
Analysis Batch: 23722

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<5.03	U	252	258.7		mg/Kg		101	90 - 110

Lab Sample ID: 880-13752-A-1-C MSD
Matrix: Solid
Analysis Batch: 23722

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.03	U	252	258.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-23643/1-A
Matrix: Solid
Analysis Batch: 23776

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/19/22 13:20	1

Lab Sample ID: LCS 880-23643/2-A
Matrix: Solid
Analysis Batch: 23776

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	228.6		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-23643/3-A
Matrix: Solid
Analysis Batch: 23776

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	233.3		mg/Kg		93	90 - 110	2	20

QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-13750-1
Project/Site: Benson Shugart Waterflood Unit #015

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-13750-2 MS
Client Sample ID: East Auger Hole
Matrix: Solid
Prep Type: Soluble
Analysis Batch: 23776

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	99.5		250	350.4		mg/Kg		100	90 - 110		

Lab Sample ID: 880-13750-2 MSD
Client Sample ID: East Auger Hole
Matrix: Solid
Prep Type: Soluble
Analysis Batch: 23776

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	99.5		250	332.0		mg/Kg		93	90 - 110	5	20

QC Association Summary

Client: Etech Environmental & Safety Solutions Job ID: 880-13750-1
Project/Site: Benson Shugart Waterflood Unit #015

HPLC/IC

Leach Batch: 23643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13750-1	East Auger Hole	Soluble	Solid	DI Leach	
880-13750-2	East Auger Hole	Soluble	Solid	DI Leach	
880-13750-3	North Auger Hole 1	Soluble	Solid	DI Leach	
880-13750-4	North Auger Hole 1	Soluble	Solid	DI Leach	
880-13750-5	North Auger Hole 2	Soluble	Solid	DI Leach	
880-13750-6	North Auger Hole 2	Soluble	Solid	DI Leach	
880-13750-7	West Auger Hole	Soluble	Solid	DI Leach	
880-13750-8	West Auger Hole	Soluble	Solid	DI Leach	
880-13750-9	South Auger Hole 1	Soluble	Solid	DI Leach	
880-13750-10	South Auger Hole 1	Soluble	Solid	DI Leach	
880-13750-11	South Auger Hole	Soluble	Solid	DI Leach	
MB 880-23643/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23643/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23643/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-13750-2 MS	East Auger Hole	Soluble	Solid	DI Leach	
880-13750-2 MSD	East Auger Hole	Soluble	Solid	DI Leach	

Leach Batch: 23649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13750-12	South Auger Hole	Soluble	Solid	DI Leach	
880-13750-13	Auger Hole 1	Soluble	Solid	DI Leach	
880-13750-14	Auger Hole 2	Soluble	Solid	DI Leach	
880-13750-15	Auger Hole 3	Soluble	Solid	DI Leach	
880-13750-16	Auger Hole 4	Soluble	Solid	DI Leach	
MB 880-23649/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23649/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23649/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-13752-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-13752-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 23722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13750-12	South Auger Hole	Soluble	Solid	300.0	23649
880-13750-13	Auger Hole 1	Soluble	Solid	300.0	23649
880-13750-14	Auger Hole 2	Soluble	Solid	300.0	23649
880-13750-15	Auger Hole 3	Soluble	Solid	300.0	23649
880-13750-16	Auger Hole 4	Soluble	Solid	300.0	23649
MB 880-23649/1-A	Method Blank	Soluble	Solid	300.0	23649
LCS 880-23649/2-A	Lab Control Sample	Soluble	Solid	300.0	23649
LCSD 880-23649/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23649
880-13752-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	23649
880-13752-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	23649

Analysis Batch: 23776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13750-1	East Auger Hole	Soluble	Solid	300.0	23643
880-13750-2	East Auger Hole	Soluble	Solid	300.0	23643
880-13750-3	North Auger Hole 1	Soluble	Solid	300.0	23643
880-13750-4	North Auger Hole 1	Soluble	Solid	300.0	23643
880-13750-5	North Auger Hole 2	Soluble	Solid	300.0	23643
880-13750-6	North Auger Hole 2	Soluble	Solid	300.0	23643

QC Association Summary

Client: Etech Environmental & Safety Solutions Job ID: 880-13750-1
Project/Site: Benson Shugart Waterflood Unit #015

HPLC/IC (Continued)

Analysis Batch: 23776 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13750-7	West Auger Hole	Soluble	Solid	300.0	23643
880-13750-8	West Auger Hole	Soluble	Solid	300.0	23643
880-13750-9	South Auger Hole 1	Soluble	Solid	300.0	23643
880-13750-10	South Auger Hole 1	Soluble	Solid	300.0	23643
880-13750-11	South Auger Hole	Soluble	Solid	300.0	23643
MB 880-23643/1-A	Method Blank	Soluble	Solid	300.0	23643
LCS 880-23643/2-A	Lab Control Sample	Soluble	Solid	300.0	23643
LCSD 880-23643/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23643
880-13750-2 MS	East Auger Hole	Soluble	Solid	300.0	23643
880-13750-2 MSD	East Auger Hole	Soluble	Solid	300.0	23643

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 880-13750-1
Project/Site: Benson Shugart Waterflood Unit #015

Client Sample ID: East Auger Hole
Lab Sample ID: 880-13750-1
Date Collected: 04/06/22 10:30
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	23643	04/15/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			23776	04/19/22 15:01	SC	XEN MID

Client Sample ID: East Auger Hole
Lab Sample ID: 880-13750-2
Date Collected: 04/06/22 10:32
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	23643	04/15/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			23776	04/19/22 15:07	SC	XEN MID

Client Sample ID: North Auger Hole 1
Lab Sample ID: 880-13750-3
Date Collected: 04/06/22 10:34
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	23643	04/15/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			23776	04/19/22 15:27	SC	XEN MID

Client Sample ID: North Auger Hole 1
Lab Sample ID: 880-13750-4
Date Collected: 04/06/22 10:36
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	23643	04/15/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			23776	04/19/22 15:33	SC	XEN MID

Client Sample ID: North Auger Hole 2
Lab Sample ID: 880-13750-5
Date Collected: 04/06/22 10:38
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	23643	04/15/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			23776	04/19/22 15:52	SC	XEN MID

Client Sample ID: North Auger Hole 2
Lab Sample ID: 880-13750-6
Date Collected: 04/06/22 10:40
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	23643	04/15/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			23776	04/19/22 15:58	SC	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 880-13750-1
Project/Site: Benson Shugart Waterflood Unit #015

Client Sample ID: West Auger Hole
Lab Sample ID: 880-13750-7
Date Collected: 04/06/22 10:42
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	23643	04/15/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			23776	04/19/22 16:05	SC	XEN MID

Client Sample ID: West Auger Hole
Lab Sample ID: 880-13750-8
Date Collected: 04/06/22 10:44
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	23643	04/15/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			23776	04/19/22 16:11	SC	XEN MID

Client Sample ID: South Auger Hole 1
Lab Sample ID: 880-13750-9
Date Collected: 04/06/22 10:46
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	23643	04/15/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			23776	04/19/22 16:17	SC	XEN MID

Client Sample ID: South Auger Hole 1
Lab Sample ID: 880-13750-10
Date Collected: 04/06/22 10:48
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	23643	04/15/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			23776	04/19/22 16:24	SC	XEN MID

Client Sample ID: South Auger Hole
Lab Sample ID: 880-13750-11
Date Collected: 04/06/22 10:50
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	23643	04/15/22 11:50	SC	XEN MID
Soluble	Analysis	300.0		1			23776	04/19/22 16:30	SC	XEN MID

Client Sample ID: South Auger Hole
Lab Sample ID: 880-13750-12
Date Collected: 04/06/22 10:52
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	23649	04/15/22 12:06	SC	XEN MID
Soluble	Analysis	300.0		1			23722	04/18/22 13:01	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 880-13750-1
Project/Site: Benson Shugart Waterflood Unit #015

Client Sample ID: Auger Hole 1
Lab Sample ID: 880-13750-13
Date Collected: 04/11/22 10:00
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	23649	04/15/22 12:06	SC	XEN MID
Soluble	Analysis	300.0		1			23722	04/18/22 13:09	CH	XEN MID

Client Sample ID: Auger Hole 2
Lab Sample ID: 880-13750-14
Date Collected: 04/11/22 10:02
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	23649	04/15/22 12:06	SC	XEN MID
Soluble	Analysis	300.0		1			23722	04/18/22 13:18	CH	XEN MID

Client Sample ID: Auger Hole 3
Lab Sample ID: 880-13750-15
Date Collected: 04/11/22 10:04
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	23649	04/15/22 12:06	SC	XEN MID
Soluble	Analysis	300.0		1			23722	04/18/22 13:27	CH	XEN MID

Client Sample ID: Auger Hole 4
Lab Sample ID: 880-13750-16
Date Collected: 04/11/22 10:06
Matrix: Solid
Date Received: 04/14/22 16:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	23649	04/15/22 12:06	SC	XEN MID
Soluble	Analysis	300.0		1			23722	04/18/22 13:36	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 880-13750-1
Project/Site: Benson Shugart Waterflood Unit #015

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

Method Summary

Client: Etech Environmental & Safety Solutions
Job ID: 880-13750-1
Project/Site: Benson Shugart Waterflood Unit #015

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Benson Shugart Waterflood Unit #015

Job ID: 880-13750-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-13750-1	East Auger Hole	Solid	04/06/22 10:30	04/14/22 16:29	0-6"
880-13750-2	East Auger Hole	Solid	04/06/22 10:32	04/14/22 16:29	42-48"
880-13750-3	North Auger Hole 1	Solid	04/06/22 10:34	04/14/22 16:29	0-6"
880-13750-4	North Auger Hole 1	Solid	04/06/22 10:36	04/14/22 16:29	42-48"
880-13750-5	North Auger Hole 2	Solid	04/06/22 10:38	04/14/22 16:29	0-6"
880-13750-6	North Auger Hole 2	Solid	04/06/22 10:40	04/14/22 16:29	42-48"
880-13750-7	West Auger Hole	Solid	04/06/22 10:42	04/14/22 16:29	0-6"
880-13750-8	West Auger Hole	Solid	04/06/22 10:44	04/14/22 16:29	42-48"
880-13750-9	South Auger Hole 1	Solid	04/06/22 10:46	04/14/22 16:29	0-6"
880-13750-10	South Auger Hole 1	Solid	04/06/22 10:48	04/14/22 16:29	42-48"
880-13750-11	South Auger Hole	Solid	04/06/22 10:50	04/14/22 16:29	0-6"
880-13750-12	South Auger Hole	Solid	04/06/22 10:52	04/14/22 16:29	66-72"
880-13750-13	Auger Hole 1	Solid	04/11/22 10:00	04/14/22 16:29	66-72"
880-13750-14	Auger Hole 2	Solid	04/11/22 10:02	04/14/22 16:29	66-72"
880-13750-15	Auger Hole 3	Solid	04/11/22 10:04	04/14/22 16:29	66-72"
880-13750-16	Auger Hole 4	Solid	04/11/22 10:06	04/14/22 16:29	66-72"

Chain of Custody

XENCO LABORATORIES

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock TX (806)794-1296
Hobbs NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa FL (813-620-2000)

Work Order No: 13750

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4/20/2022

Project Manager	Brandon Wilson	Bill to (if different)	
Company Name	Etech Environmental	Company Name	
Address	13000 W CR 100	Address	
City, State ZIP	Odessa, Texas 79765	City, State ZIP	
Phone	432-563-2200 Email	brandon@etechenv com, blake@etechenv com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Benson Shugart Waterflood Unit #015	Turn Around	
Project Number	15306	Routine ☐	
P O Number	15306	Rush	
Sampler's Name	Blake Estep	Due Date	

SAMPLE RECEIPT			
Temp Blank	Yes No	Wet Ice	Yes No
Temperature (°C)	3.6.2	Thermometer ID	IR8
Received Intact:	Yes No		
Cooler Custody Seals.	Yes No N/A	Correction Factor	-.1
Sample Custody Seals	Yes No N/A	Total Containers	

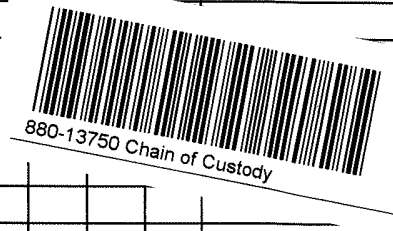
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides
East Auger Hole	S	4/6/2022	10 30	0-6"	1	X
East Auger Hole	S	4/6/2022	10 32	42-48"	1	X
North Auger Hole 1	S	4/6/2022	10 34	0-6"	1	X
North Auger Hole 1	S	4/6/2022	10 36	42-48"	1	X
North Auger Hole 2	S	4/6/2022	10 38	0-6"	1	X
North Auger Hole 2	S	4/6/2022	10 40	42-48"	1	X
West Auger Hole	S	4/6/2022	10 42	0-6"	1	X
West Auger Hole	S	4/6/2022	10 44	42-48"	1	X
South Auger Hole 1	S	4/6/2022	10 46	0-6"	1	X
South Auger Hole 1	S	4/6/2022	10 48	42-48"	1	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab if received by 4 30pm

Sample Comments



Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed These terms will be enforced unless previously negotiated

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		4/14/22 16:29	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

XENCO LABORATORIES

Chain of Custody

Work Order No: 13750

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock TX (806)794-1296
Hobbs NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000)

www xenco com Page 2 of 2

Project Manager	Brandon Wilson	Bill to (if different)	
Company Name	Etech Environmental	Company Name	
Address	13000 W CR 100	Address	
City, State ZIP	Odessa, Texas 79765	City, State ZIP	
Phone	432-563-2200	Email	brandon@etechenv com, blake@etechenv com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Benson Shugart Waterflood Unit #015	Turn Around	
Project Number	15306	Routine ☐	
P O Number	15306	Rush	
Sampler's Name	Blake Estep	Due Date	

SAMPLE RECEIPT				
Temp Blank	Yes (No)	Wet Ice	(Yes) No	
Temperature (°C)	3.2	Thermometer ID	IR8	
Received Intact:	(Yes) No			
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-.1	
Sample Custody Seals	Yes No (N/A)	Total Containers		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides
South Auger Hole 2	S	4/6/2022	10 50	0-6"	1	X
South Auger Hole 2	S	4/6/2022	10 52	42-48"	1	X
Auger Hole 1	S	4/11/2022	10 00	66-72"	1	X
Auger Hole 2	S	4/11/2022	10 02	66-72"	1	X
Auger Hole 3	S	4/11/2022	10 04	66-72"	1	X
Auger Hole 4	S	4/11/2022	10 06	66-72"	1	X

ANALYSIS REQUEST

Work Order Notes

TAT starts the day received by the lab if received by 4 30pm

Sample Comments

Loc: 880
13750

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 Hg

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed These terms will be enforced unless previously negotiated

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		4/14/22 16:29	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions Job Number: 880-13750-1

Login Number: 13750 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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 130579

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 130579
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation and closure of the site must also comply with 19.15.29.13 NMAC.	12/8/2022
bhall	Please submit a complete report through the OCD Permitting website by 03/10/2023.	12/8/2022