Form C-141
Page 5

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: 10-23-22

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 10/24/2022

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

Signature: Jennifer Nobui Date: 11/18/2022

October 18, 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
Dagger Lake Narwhal Pad Release (nAPP2205633098)
GPS: N 32.40054° W 103.56251°
Unit Letter "N", Section 10, Township 22 South, Range 33 East
Lea 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 Dagger Lake Narwhal Pad Release (Release Site). The legal description of the Release Site is Unit Letter "N", Section 10, Township 22 South, Range 33 East, in Lea County, New Mexico. The GPS coordinates for the site are N 32.40054° W 103.56251°. A Site Location Topographic Map and Aerial Proximity Map are provided as Figure 1 and Figure 2, respectively.

INTRODUCTION

On February 9, 2022, a reportable release occurred at the Release Site. The release was the result of a failure on the body of the layflat hose. Approximately five (5) barrels (bbls) of produced water was released with approximately one (1) bbl of produced water recovered via vacuum truck, for a net loss of four (4) bbls of produced water. The initial Form C-141 is provided in Appendix A.

NMOCD SITE CLASSIFICATION

New Mexico Oil Conservation Division (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 zero (0) water wells within a ½-mile radius. The closest water well (USGS Well# 322325103313301) is 2.16 miles southeast of the release site with a depth to water of three hundred ninety-one (391) feet below ground surface (bgs). In addition, the site is listed as being in a low 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 and with no pertinent groundwater data located within ½ miles of the site, the following soil remediation clean up 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 August 10, 2022, Etech was onsite to perform the initial assessment of the release. On September 6, 2022, one (1) auger hole (Auger Hole 1) was installed in the spill area to depth of forty-eight (48) inches bgs. Samples were collected in every twelve (12) inch intervals and submitted to Permian Basin Environmental Laboratory (PBELAB) 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 E300.0. Analytical concentrations for chloride were above the NMOCD remediation standards in Auger Hole 1 in the two (2) foot, three (3) foot, and four (4) foot intervals and were not vertically delineated. All other analysis were below both the NMOCD Closure Criteria or Reclamation Standards. See Table 1 for analytical results. See Appendix C for attached photos detailing release and impact to pad. See Figure 3 for Site and Sample Location map.

SOIL DELINEATION AND REMEDIATION WORKPLAN

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

- Impacted soils will be excavated to appropriate depths based on field and laboratory 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 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 E300.0.
- The impacted soils will be transported off-site for disposal at an NMOCD approved disposal facility.
- Upon completion of additional delineation/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 and complete remediation activities within ninety (90) days 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 432-894-6038 (cell).

Thank you,

Blake Estep
Project Manager
Etech Environmental & Safety Solutions, Inc.

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

Attachments:

Figure 1 – Site Location Topographic Map
Figure 2 – Aerial Proximity Map
Figure 3 – Site and Sample Location Map
Table 1 – Concentrations of Benzene, BTEX, TPH, and Chloride in Soil - Delineation
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

Legend:

- Site Location

Figure 1

Site Location Topographic Map

Chevron USA

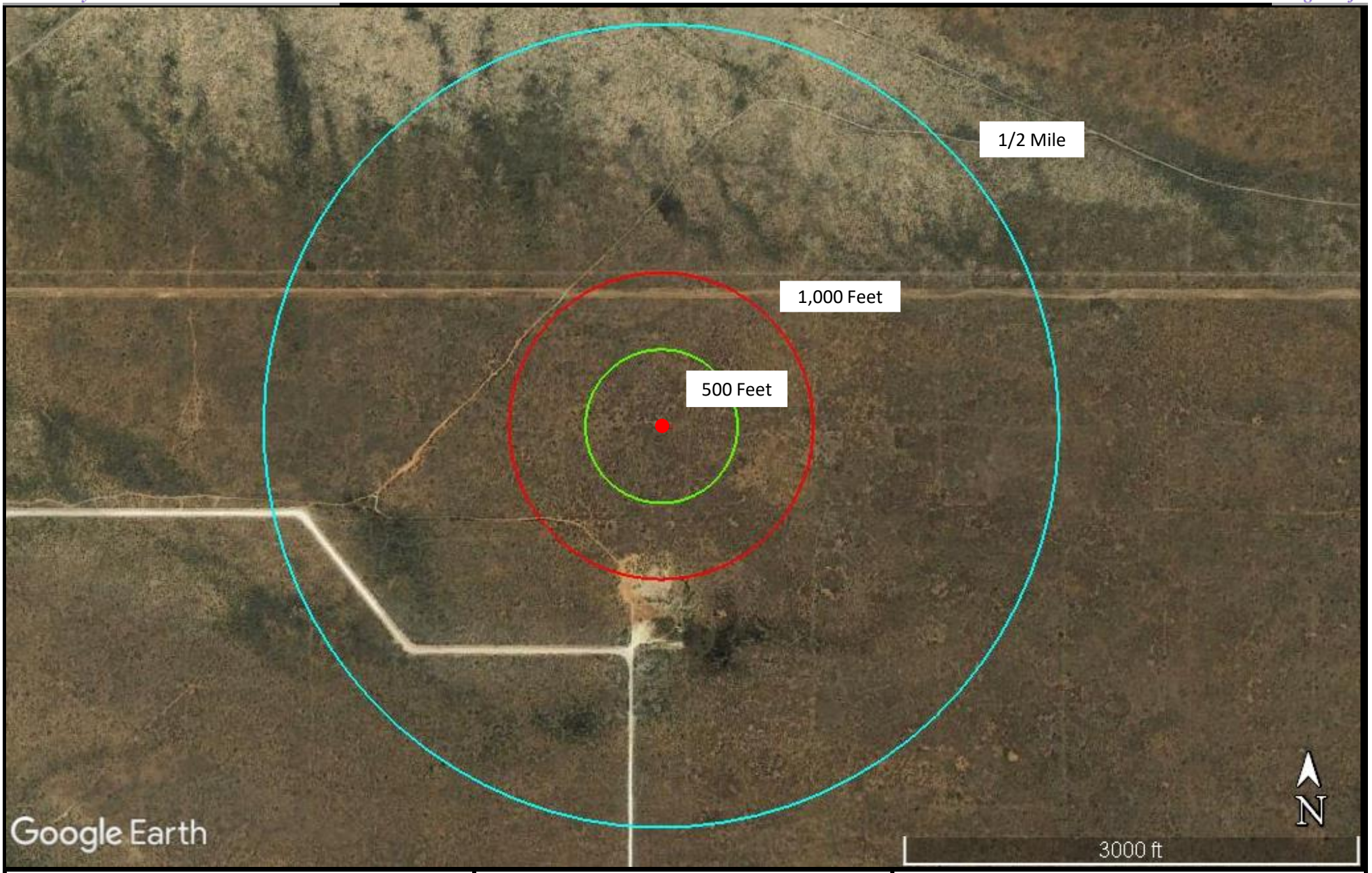
Dagger Lake Narwhal Pad

GPS: 32.40054, -103.56251

Lea County

eTECH Environmental & Safety Solutions, Inc.

Date: 10/18/22



Legend:

- Site Location
- Fresh Water Well
- 100-Year Floodplain
- High/Critical Karst
- Non-Industrial Building
- Subsurface Mine

Figure 2

Aerial Proximity Map

Chevron USA

Dagger Lake Narwhal Pad

GPS: 32.40054, -103.56251

Lea County

eTECH Environmental & Safety Solutions, Inc.

Date: 10/18/22

Environmental & Safety Solutions, Inc.

Figure 3
Site and Sample Location Map

Project Name:	Dagger Lake Narwhal Pad	Project No.:	16450
Date Sampled:	September 6, 2022	GPS:	32.40054, -103.56251

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL - DELINEATION

CHEVRON USA

DAGGER LAKE NARWHAL PAD

LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	DEPTH	SAMPLE DATE	METHODS: SW 846-8021B							METHOD: SW 8015M				E 300.0
			BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C_6-C_{10}	TPH DRO C_{10}-C_{28}	TPH ORO C_{28}-C_{36}	TOTAL TPH C_6-C_{36}	CHLORIDE
NMOCD RRAL			**10 mg/Kg**						**50 mg/Kg**				**100 mg/Kg**	**600 mg/Kg**
Bottom Hole Sample Results														
Auger Hole 1	**12"**	9/6/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.2
Auger Hole 1	**24"**	9/6/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4,520**
Auger Hole 1	**36"**	9/6/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2,620**
Auger Hole 1	**48"**	9/6/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1,530**

Bold and Yellow Highlighted indicates Analyte Above NMOCD Regulatory Limit

ND - Analyte Not Detected at or above the laboratory reporting limit

Appendix A

Initial Release Notification and Corrective Action Form C-141

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.

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: 10-23-22_____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2205633098
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron USA	OGRID: 4323
Contact Name: Amy Barnhill	Contact Telephone: 432-687-7108
Contact email: ABarnhill@chevron.com	Incident # *(assigned by OCD)*
Contact mailing address: 6301 Deauville Blvd Midland, Tx 79706	

Location of Release Source

Latitude 32.400539 Longitude -103.562422
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: DL 22 33 Sec 15/22 Pad 219, Pkg 3 Dagger Lake Narwhal Pad	Site Type: Produced Water
Date Release Discovered: 2-9-22	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
N	10	22S	33E	Lea

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 1
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: a failure on the body of the layflat hose

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2205633098
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

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

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

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

Printed Name: Amy Barnhill Title: Water Specialist

Signature: Amy Barnhill Date: 2-7-22

email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: Date:

Incident ID	nAPP2205633098
District RP	
Facility ID	
Application ID	

Spill Calculations:

4.76	free-fluid
0.24	in soil
5.00	total

Appendix B

Groundwater Data Maps and Supporting Water Well Data

New Mexico Office of the State Engineer
Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 635199.74 **Northing (Y):** 3585742.45 **Radius:** 804

Legend:

- Site Location
- USGS Water Well

Figure 4

USGS Well Proximity Map

Chevron USA

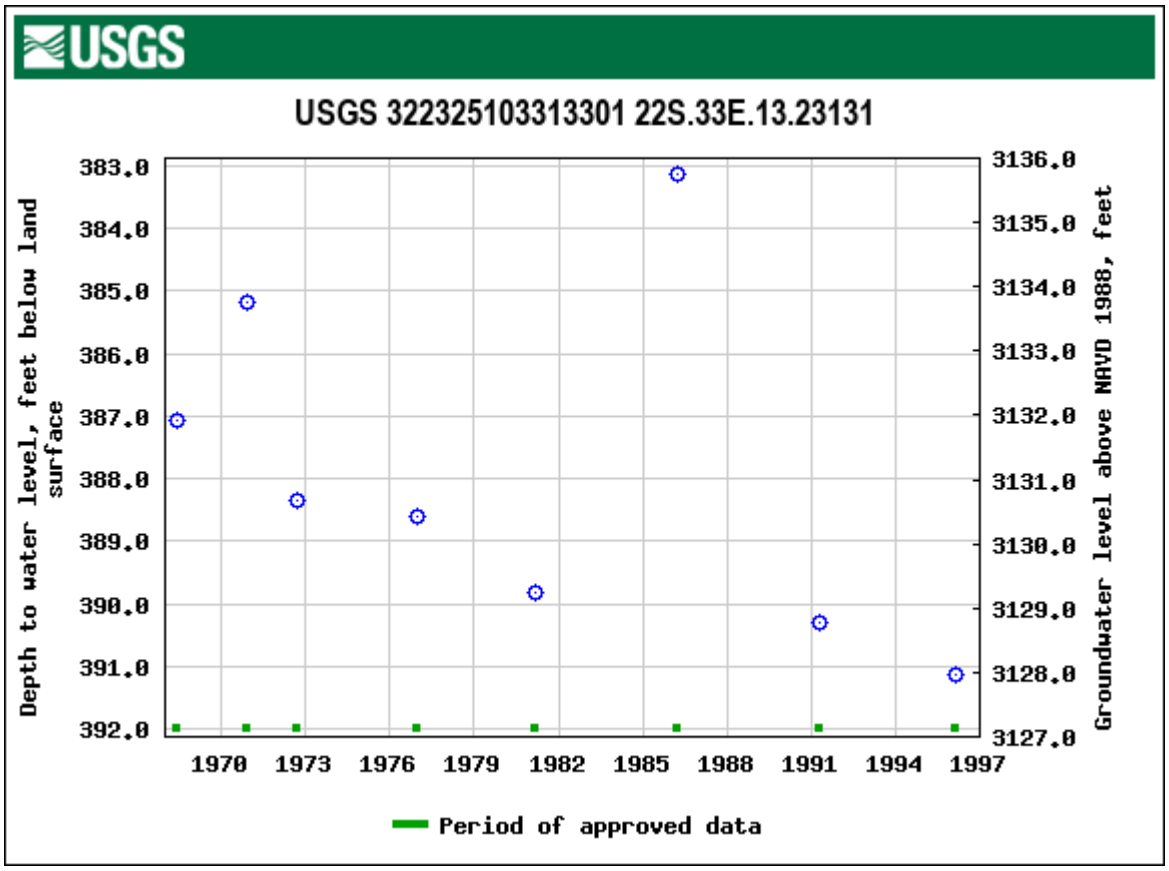
Dagger Lake Narwhal Pad

GPS: 32.40054, -103.56251

Lea County

eTECH Environmental & Safety Solutions, Inc.

Date: 10/18/22


USGS
USGS 322325103313301 22S.33E.13.23131
Depth to water level, feet below land surface
Groundwater level above NAVD 1988, feet
383.0
384.0
385.0
386.0
387.0
388.0
389.0
390.0
391.0
392.0
3136.0
3135.0
3134.0
3133.0
3132.0
3131.0
3130.0
3129.0
3128.0
3127.0
1970
1973
1976
1979
1982
1985
1988
1991
1994
1997
Period of approved data

Appendix C

Photographic Documentation

Project Name: *Dagger Lake*
Project No: *16450*

Photographic Documentation

Photo No: **1.**	
Direction Taken: East	
Description: View of the impacted area.	

Photo No: **2.**	
Direction Taken: West	
Description: View of the impacted area.	

Appendix D

Laboratory Analytical

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Blake Estep

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa, TX 79765

Project: Dagger Lake

Project Number: 16450

Location: New Mexico

Lab Order Number: 2I06020

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 09/15/22

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Auger Hole 1 (1')	2I06020-01	Soil	09/06/22 11:15	09-06-2022 16:24
Auger Hole 1 (2')	2I06020-02	Soil	09/06/22 11:20	09-06-2022 16:24
Auger Hole 1 (3')	2I06020-03	Soil	09/06/22 11:25	09-06-2022 16:24
Auger Hole 1 (4')	2I06020-04	Soil	09/06/22 11:30	09-06-2022 16:24

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 1 (1')

2I06020-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00115	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 11:53	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 11:53	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 11:53	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 11:53	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 11:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P2I1201*	*09/12/22 08:37*	*09/12/22 11:53*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.2 %*	*80-120*		*P2I1201*	*09/12/22 08:37*	*09/12/22 11:53*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**19.2**	1.15	mg/kg dry	1	P2I0804	09/08/22 10:00	09/09/22 09:29	EPA 300.0	
% Moisture	**13.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.7	mg/kg dry	1	P2I0718	09/07/22 14:30	09/09/22 22:33	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P2I0718	09/07/22 14:30	09/09/22 22:33	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P2I0718	09/07/22 14:30	09/09/22 22:33	TPH 8015M	
Surrogate: 1-Chlorooctane		*120 %*	*70-130*		*P2I0718*	*09/07/22 14:30*	*09/09/22 22:33*	*TPH 8015M*	
Surrogate: o-Terphenyl		*133 %*	*70-130*		*P2I0718*	*09/07/22 14:30*	*09/09/22 22:33*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	09/07/22 14:30	09/09/22 22:33	calc	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 1 (2')

2I06020-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 16:17	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 16:17	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 16:17	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 16:17	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P2I0803	09/08/22 10:05	09/09/22 16:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.5 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 16:17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		*P2I0803*	*09/08/22 10:05*	*09/09/22 16:17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4520**	11.1	mg/kg dry	10	P2I0811	09/08/22 11:54	09/09/22 02:23	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P2I0718	09/07/22 14:30	09/09/22 22:56	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P2I0718	09/07/22 14:30	09/09/22 22:56	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P2I0718	09/07/22 14:30	09/09/22 22:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*124 %*	*70-130*		*P2I0718*	*09/07/22 14:30*	*09/09/22 22:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*136 %*	*70-130*		*P2I0718*	*09/07/22 14:30*	*09/09/22 22:56*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	09/07/22 14:30	09/09/22 22:56	calc	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 1 (3')

2I06020-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 12:14	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 12:14	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 12:14	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 12:14	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 12:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		*P2I1201*	*09/12/22 08:37*	*09/12/22 12:14*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.2 %*	*80-120*		*P2I1201*	*09/12/22 08:37*	*09/12/22 12:14*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2620**	10.9	mg/kg dry	10	P2I0811	09/08/22 11:54	09/09/22 02:36	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P2I0718	09/07/22 14:30	09/09/22 23:19	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P2I0718	09/07/22 14:30	09/09/22 23:19	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P2I0718	09/07/22 14:30	09/09/22 23:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*125 %*	*70-130*		*P2I0718*	*09/07/22 14:30*	*09/09/22 23:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*136 %*	*70-130*		*P2I0718*	*09/07/22 14:30*	*09/09/22 23:19*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	09/07/22 14:30	09/09/22 23:19	calc	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 1 (4')

2I06020-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 12:35	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 12:35	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 12:35	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 12:35	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P2I1201	09/12/22 08:37	09/12/22 12:35	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.4 %*	*80-120*		*P2I1201*	*09/12/22 08:37*	*09/12/22 12:35*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		*P2I1201*	*09/12/22 08:37*	*09/12/22 12:35*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1530**	5.38	mg/kg dry	5	P2I0906	09/09/22 11:55	09/09/22 23:41	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P2I0902	09/09/22 09:32	09/09/22 09:34	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P2I0718	09/07/22 14:30	09/10/22 00:28	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P2I0718	09/07/22 14:30	09/10/22 00:28	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P2I0718	09/07/22 14:30	09/10/22 00:28	TPH 8015M	
Surrogate: 1-Chlorooctane		*127 %*	*70-130*		*P2I0718*	*09/07/22 14:30*	*09/10/22 00:28*	*TPH 8015M*	
Surrogate: o-Terphenyl		*138 %*	*70-130*		*P2I0718*	*09/07/22 14:30*	*09/10/22 00:28*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/07/22 14:30	09/10/22 00:28	calc	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0803 - * DEFAULT PREP *** **										
Blank (P2I0803-BLK1)				Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*94.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.8*	*80-120*			
LCS (P2I0803-BS1)				Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*97.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.120*		*95.0*	*80-120*			
LCS Dup (P2I0803-BSD1)				Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120	1.92	20	
Toluene	0.110	0.00100	"	0.100		110	80-120	5.68	20	
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120	0.490	20	
Xylene (p/m)	0.217	0.00200	"	0.200		108	80-120	2.88	20	
Xylene (o)	0.113	0.00100	"	0.100		113	80-120	3.05	20	
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*94.0*	*80-120*			
Calibration Check (P2I0803-CCV1)				Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	0.108	0.00100	mg/kg	0.102		106	80-120			
Toluene	0.110	0.00100	"	0.102		108	80-120			
Ethylbenzene	0.114	0.00100	"	0.102		112	80-120			
Xylene (p/m)	0.206	0.00200	"	0.204		101	80-120			
Xylene (o)	0.117	0.00100	"	0.102		115	80-120			
Surrogate: 1,4-Difluorobenzene	*0.125*		"	*0.120*		*104*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.6*	*75-125*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0803 - * DEFAULT PREP *** **										
Calibration Check (P2I0803-CCV2)				Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	0.113	0.00100	mg/kg	0.102		111	80-120			
Toluene	0.116	0.00100	"	0.102		114	80-120			
Ethylbenzene	0.112	0.00100	"	0.102		110	80-120			
Xylene (p/m)	0.232	0.00200	"	0.204		114	80-120			
Xylene (o)	0.120	0.00100	"	0.102		118	80-120			
Surrogate: 4-Bromofluorobenzene	*0.126*		"	*0.120*		*105*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.120*		*98.9*	*75-125*			
Matrix Spike (P2I0803-MS1)		**Source: 2I06020-02**		Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	0.0967	0.00111	mg/kg dry	0.111	ND	87.0	80-120			
Toluene	0.0996	0.00111	"	0.111	ND	89.6	80-120			
Ethylbenzene	0.105	0.00111	"	0.111	ND	94.9	80-120			
Xylene (p/m)	0.185	0.00222	"	0.222	ND	83.1	80-120			
Xylene (o)	0.101	0.00111	"	0.111	ND	91.0	80-120			
Surrogate: 4-Bromofluorobenzene	*0.140*		"	*0.133*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.133*		"	*0.133*		*99.8*	*80-120*			
Matrix Spike Dup (P2I0803-MSD1)		**Source: 2I06020-02**		Prepared: 09/08/22 Analyzed: 09/09/22						
Benzene	0.0970	0.00111	mg/kg dry	0.111	ND	87.3	80-120	0.252	20	
Toluene	0.101	0.00111	"	0.111	ND	91.3	80-120	1.91	20	
Ethylbenzene	0.108	0.00111	"	0.111	ND	97.1	80-120	2.31	20	
Xylene (p/m)	0.187	0.00222	"	0.222	ND	83.9	80-120	0.964	20	
Xylene (o)	0.100	0.00111	"	0.111	ND	90.4	80-120	0.651	20	
Surrogate: 4-Bromofluorobenzene	*0.142*		"	*0.133*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.132*		"	*0.133*		*98.8*	*80-120*			
Batch P2I1201 - * DEFAULT PREP *** **										
Blank (P2I1201-BLK1)				Prepared & Analyzed: 09/12/22						
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*96.6*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I1201 - * DEFAULT PREP *** **										
LCS (P2I1201-BS1)				Prepared & Analyzed: 09/12/22						
Benzene	0.104	0.00100	mg/kg	0.100		104	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		97.9	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
LCS Dup (P2I1201-BSD1)				Prepared & Analyzed: 09/12/22						
Benzene	0.105	0.00100	mg/kg	0.100		105	80-120	1.01	20	
Toluene	0.106	0.00100	"	0.100		106	80-120	3.69	20	
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120	5.22	20	
Xylene (p/m)	0.206	0.00200	"	0.200		103	80-120	4.90	20	
Xylene (o)	0.110	0.00100	"	0.100		110	80-120	3.05	20	
Surrogate: 1,4-Difluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Calibration Blank (P2I1201-CCB1)				Prepared & Analyzed: 09/12/22						
Benzene	0.00		ug/kg							
Toluene	0.280		"							
Ethylbenzene	0.110		"							
Xylene (p/m)	0.210		"							
Xylene (o)	0.180		"							
Surrogate: 4-Bromofluorobenzene	*0.100*		*"*	*0.120*		*83.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*93.8*	*80-120*			
Calibration Blank (P2I1201-CCB2)				Prepared & Analyzed: 09/12/22						
Benzene	0.00		ug/kg							
Toluene	0.230		"							
Ethylbenzene	0.180		"							
Xylene (p/m)	0.250		"							
Xylene (o)	0.180		"							
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.116*		*"*	*0.120*		*96.8*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I1201 - * DEFAULT PREP *** **										
Calibration Check (P2I1201-CCV1)				Prepared & Analyzed: 09/12/22						
Benzene	0.112	0.00100	mg/kg	0.102		110	80-120			
Toluene	0.114	0.00100	"	0.102		112	80-120			
Ethylbenzene	0.116	0.00100	"	0.102		114	80-120			
Xylene (p/m)	0.208	0.00200	"	0.204		102	80-120			
Xylene (o)	0.117	0.00100	"	0.102		115	80-120			
Surrogate: 4-Bromofluorobenzene	*0.103*		"	*0.120*		*86.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*100*	*75-125*			
Calibration Check (P2I1201-CCV2)				Prepared & Analyzed: 09/12/22						
Benzene	0.107	0.00100	mg/kg	0.102		105	80-120			
Toluene	0.110	0.00100	"	0.102		107	80-120			
Ethylbenzene	0.114	0.00100	"	0.102		111	80-120			
Xylene (p/m)	0.209	0.00200	"	0.204		103	80-120			
Xylene (o)	0.114	0.00100	"	0.102		111	80-120			
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.120*		*98.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.123*		"	*0.120*		*103*	*75-125*			
Calibration Check (P2I1201-CCV3)				Prepared & Analyzed: 09/12/22						
Benzene	0.118	0.00100	mg/kg	0.102		115	80-120			
Toluene	0.116	0.00100	"	0.102		113	80-120			
Ethylbenzene	0.117	0.00100	"	0.102		115	80-120			
Xylene (p/m)	0.215	0.00200	"	0.204		106	80-120			
Xylene (o)	0.116	0.00100	"	0.102		114	80-120			
Surrogate: 4-Bromofluorobenzene	*0.124*		"	*0.120*		*103*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.120*		*102*	*75-125*			
Matrix Spike (P2I1201-MS1)	**Source: 2I08010-04**			Prepared & Analyzed: 09/12/22						
Benzene	0.0867	0.00108	mg/kg dry	0.108	ND	80.6	80-120			
Toluene	0.0865	0.00108	"	0.108	ND	80.4	80-120			
Ethylbenzene	0.0922	0.00108	"	0.108	ND	85.8	80-120			
Xylene (p/m)	0.165	0.00215	"	0.215	ND	76.9	80-120			QM-05
Xylene (o)	0.0893	0.00108	"	0.108	ND	83.1	80-120			
Surrogate: 1,4-Difluorobenzene	*0.131*		"	*0.129*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.145*		"	*0.129*		*112*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I1201 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2I1201-MSD1)	**Source: 2I08010-04**			Prepared & Analyzed: 09/12/22						
Benzene	0.0871	0.00108	mg/kg dry	0.108	ND	81.0	80-120	0.544	20	
Toluene	0.0869	0.00108	"	0.108	ND	80.8	80-120	0.434	20	
Ethylbenzene	0.0933	0.00108	"	0.108	ND	86.8	80-120	1.18	20	
Xylene (p/m)	0.167	0.00215	"	0.215	ND	77.5	80-120	0.706	20	QM-05
Xylene (o)	0.0903	0.00108	"	0.108	ND	84.0	80-120	1.14	20	
Surrogate: 1,4-Difluorobenzene	*0.134*		*"*	*0.129*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.150*		*"*	*0.129*		*116*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0804 - * DEFAULT PREP *** **										
Blank (P2I0804-BLK1)				Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	ND	1.00	mg/kg							
LCS (P2I0804-BS1)				Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	38.5		mg/kg	40.0		96.3	90-110			
LCS Dup (P2I0804-BSD1)				Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	38.7		mg/kg	40.0		96.7	90-110	0.373	10	
Calibration Blank (P2I0804-CCB1)				Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	0.00		mg/kg							
Calibration Blank (P2I0804-CCB2)				Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	0.00		mg/kg							
Calibration Check (P2I0804-CCV1)				Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	19.9		mg/kg	20.0		99.7	90-110			
Calibration Check (P2I0804-CCV2)				Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	20.3		mg/kg	20.0		101	90-110			
Calibration Check (P2I0804-CCV3)				Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	19.5		mg/kg	20.0		97.5	90-110			
Matrix Spike (P2I0804-MS1)		**Source: 2I06008-01**		Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	1990	28.1	mg/kg dry	1400	717	90.7	80-120			
Matrix Spike (P2I0804-MS2)		**Source: 2I06018-04**		Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	780	10.9	mg/kg dry	543	336	81.8	80-120			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0804 - * DEFAULT PREP *** **										
Matrix Spike Dup (P2I0804-MSD1)	**Source: 2I06008-01**			Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	1930	28.1	mg/kg dry	1400	717	86.4	80-120	3.05	20	
Matrix Spike Dup (P2I0804-MSD2)	**Source: 2I06018-04**			Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	793	10.9	mg/kg dry	543	336	84.1	80-120	1.59	20	
Batch P2I0811 - * DEFAULT PREP *** **										
Blank (P2I0811-BLK1)				Prepared & Analyzed: 09/08/22						
Chloride	ND	1.00	mg/kg							
LCS (P2I0811-BS1)				Prepared & Analyzed: 09/08/22						
Chloride	38.5		mg/kg	40.0		96.3	90-110			
LCS Dup (P2I0811-BSD1)				Prepared & Analyzed: 09/08/22						
Chloride	38.1		mg/kg	40.0		95.3	90-110	1.00	10	
Calibration Blank (P2I0811-CCB1)				Prepared & Analyzed: 09/08/22						
Chloride	0.00		mg/kg							
Calibration Blank (P2I0811-CCB2)				Prepared & Analyzed: 09/08/22						
Chloride	0.00		mg/kg							
Calibration Check (P2I0811-CCV1)				Prepared & Analyzed: 09/08/22						
Chloride	19.6		mg/kg	20.0		97.9	90-110			
Calibration Check (P2I0811-CCV2)				Prepared & Analyzed: 09/08/22						
Chloride	19.9		mg/kg	20.0		99.3	90-110			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0811 - * DEFAULT PREP *** **										
Calibration Check (P2I0811-CCV3)				Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	19.9		mg/kg	20.0		99.7	90-110			
Matrix Spike (P2I0811-MS1)		Source: 2I08001-21		Prepared & Analyzed: 09/08/22						
Chloride	12400	26.3	mg/kg dry	1320	11300	88.3	80-120			
Matrix Spike (P2I0811-MS2)		Source: 2I08001-31		Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	12100	26.9	mg/kg dry	1340	11000	85.3	80-120			
Matrix Spike Dup (P2I0811-MSD1)		Source: 2I08001-21		Prepared & Analyzed: 09/08/22						
Chloride	12600	26.3	mg/kg dry	1320	11300	101	80-120	1.34	20	
Matrix Spike Dup (P2I0811-MSD2)		Source: 2I08001-31		Prepared: 09/08/22 Analyzed: 09/09/22						
Chloride	12100	26.9	mg/kg dry	1340	11000	82.9	80-120	0.265	20	
Batch P2I0902 - * DEFAULT PREP *** **										
Blank (P2I0902-BLK1)				Prepared & Analyzed: 09/09/22						
% Moisture	ND	0.1	%							
Blank (P2I0902-BLK2)				Prepared & Analyzed: 09/09/22						
% Moisture	ND	0.1	%							
Duplicate (P2I0902-DUP1)		Source: 2I07002-03		Prepared & Analyzed: 09/09/22						
% Moisture	13.0	0.1	%		5.0			88.9	20	R3
Duplicate (P2I0902-DUP2)		Source: 2I08001-06		Prepared & Analyzed: 09/09/22						
% Moisture	9.0	0.1	%		9.0			0.00	20	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0902 - * DEFAULT PREP *** **										
Duplicate (P2I0902-DUP3)	**Source: 2I08001-21**			Prepared & Analyzed: 09/09/22						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P2I0902-DUP4)	**Source: 2I08001-31**			Prepared & Analyzed: 09/09/22						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Batch P2I0906 - * DEFAULT PREP *** **										
Blank (P2I0906-BLK1)				Prepared & Analyzed: 09/09/22						
Chloride	ND	1.00	mg/kg							
LCS (P2I0906-BS1)				Prepared & Analyzed: 09/09/22						
Chloride	37.1		mg/kg	40.0		92.7	90-110			
LCS Dup (P2I0906-BSD1)				Prepared & Analyzed: 09/09/22						
Chloride	37.0		mg/kg	40.0		92.5	90-110	0.240	10	
Calibration Blank (P2I0906-CCB1)				Prepared & Analyzed: 09/09/22						
Chloride	0.00		mg/kg							
Calibration Blank (P2I0906-CCB2)				Prepared & Analyzed: 09/09/22						
Chloride	0.00		mg/kg							
Calibration Check (P2I0906-CCV1)				Prepared & Analyzed: 09/09/22						
Chloride	19.3		mg/kg	20.0		96.5	90-110			
Calibration Check (P2I0906-CCV2)				Prepared & Analyzed: 09/09/22						
Chloride	19.4		mg/kg	20.0		97.0	90-110			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2I0906 - * DEFAULT PREP *** **										
Calibration Check (P2I0906-CCV3)				Prepared: 09/09/22 Analyzed: 09/10/22						
Chloride	19.6		mg/kg	20.0		98.2	90-110			
Matrix Spike (P2I0906-MS1)		**Source: 2I08013-17**		Prepared & Analyzed: 09/09/22						
Chloride	11500	28.1	mg/kg dry	1400	10100	97.9	80-120			
Matrix Spike (P2I0906-MS2)		**Source: 2I08013-27**		Prepared & Analyzed: 09/09/22						
Chloride	9160	28.4	mg/kg dry	1420	7950	85.4	80-120			
Matrix Spike Dup (P2I0906-MSD1)		**Source: 2I08013-17**		Prepared & Analyzed: 09/09/22						
Chloride	11500	28.1	mg/kg dry	1400	10100	98.0	80-120	0.00981	20	
Matrix Spike Dup (P2I0906-MSD2)		**Source: 2I08013-27**		Prepared & Analyzed: 09/09/22						
Chloride	9000	28.4	mg/kg dry	1420	7950	74.2	80-120	1.76	20	QM-05

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 9/15/2022

Brent Barron, Laboratory Director/Technical Director

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Dagger Lake
13000 West County Road 100	Project Number: 16450
Odessa TX, 79765	Project Manager: Blake Estep

PBELAB Permian Basin Environmental Lab, LP

1400 Rankin Hwy Midland Texas 79701 Phone: 432-686-7235

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Blake Estep
Company Name: Etech Environmental & Safety Solutions, Inc.
Company Address: P.O. Box 62228
City/State/Zip: Midland, Texas 79711
Sampler Signature: ________ email: blake@etechenv.com

Project Name: Dagger lake
Project #: 16450 Project Loc: New Mexico
Area: Lea PO#:

☐ Bill Etech

Report Format: STANDARD: ☐ TRRP: ☐ NPDES: ☐

(lab use only)
ORDER #: 2I16020

LAB # (lab use only)	FIELD CODE	Start Depth	End Depth	Date Sampled	Time Sampled	No. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semi volatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	STANDARD TAT
V1	Augerhole 1	–	1'	9/6/22	11:15	1	X											X							X			X				X
V2	Augerhole 1		2'	↓	11:20	1	X											X							X			X				X
V3	Augerhole 1		3'	↓	11:25	1	X											X							X			X				X
V4	Augerhole 1		4'	↓	11:30	1	X											X							X			X				X

Analyze For: TCLP: ☐ ☐ ☐ ☐ TOTAL: ☐ ☐ ☐ ☐

Special Instructions: Bill to Etech

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/6	16:24			
			N Haddock	9/6/22	16:24

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
Sar by Sampler/Client Rep. ? Y N
Sar by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 24.8 +1 25.8c

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 152767

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 152767
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination (<50'). Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Sidewall/Floor samples should represent no more than 200 ft2.	11/18/2022