

Incident ID	nAB1800552891
District RP	
Facility ID	
Application ID	

Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Connor Walker _____ Title: Sr. Engineer _____
 Signature:  _____ Date: 12/22/2022 _____
 email: cwalker@mewbourne.com _____ Telephone: (806)202-5281 _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by:  _____ Date: 12/27/2022 _____
 Printed Name: Brittany Hall _____ Title: Environmental Specialist _____

Site Assessment Summary & Soil Closure Request

Mewbourne Oil Company Flower Draw 2 State SWD #1

Eddy County, New Mexico
Unit Letter "G", Section 2, Township 26 South, Range 28 East
Latitude 32.07344020 North, Longitude 104.0556889 West
NMOCD Reference No. nAB1800552891

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave., Ste. D
Lubbock, Texas 79413



Ben J. Arguijo



Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company (Mewbourne), has prepared this *Site Assessment Summary & Soil Closure Request* for the release site known as the Flower Draw 2 State SWD #1 (henceforth, "Flower Draw 2"). Details of the release are summarized below:

Location of Release Source				
Latitude: <u>32.07344020</u>		Longitude: <u>-104.0556889</u>		
Provided GPS are in WGS84 format.				
Site Name: <u>Flower Draw 2 State SWD #1</u>		Site Type: <u>Salt Water Disposal (SWD)</u>		
Date Release Discovered: <u>12/15/2017</u>		API # (if applicable): <u>30-015-23615</u>		
Unit Letter	Section	Township	Range	County
"G"	2	26S	28E	Eddy
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Private (Name _____)				
Nature and Volume of Release				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>7,739</u>		Volume Recovered (bbls) <u>5,400</u>	
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released		Volume/Weight Recovered	
Cause of Release: Injection pump failed and filled storage tanks. Tank alarm did not send notification. Inlet valve to facility was shut, and vacuum trucks were used to recover 5,400 bbls of standing fluid.				
Initial Response				
<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.				

Previously submitted portions of the *Release Notification and Corrective Action* (Form C-141) are available in the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Flower Draw 2 release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Based on a "Groundwater Determination" conducted by a third-party environmental contractor in 2018, the estimated depth to groundwater ranges from approximately 105 feet below ground surface (bgs) near the point of release to approximately 55 feet bgs at the northern end of the affected area. Depth to groundwater information is provided as Appendix A. The "Groundwater Determination" report is available in the NMOCD Imaging System.

What is the shallowest depth to groundwater beneath the area affected by the release?	55'		
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Flower Draw 2 release site are as follows:

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

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 REGULATORY SUBMITTALS & STIPULATIONS

On January 15 and 16, 2018, an initial site assessment was conducted by a third-party environmental contractor that is no longer affiliated with the site. During the initial site assessment, a series of test trenches (D1 through D6 and P1 through P5) were advanced within the affected area in an effort to determine the horizontal and vertical extent of impacted soil. In addition, two (2) test trenches (BG1 and BG2) were advanced in unaffected areas representative of the release site in order to assess the background concentrations of contaminants of concern.

On April 5, 2018, based on field observations and laboratory analytical data from soil samples collected during the initial site assessment, a *Soil Remediation Work Plan* was submitted to the NMOCD proposing a strategy to advance the site toward regulatory closure. The work plan was subsequently approved by the NMOCD.

Please reference the *Soil Remediation Work Plan* for additional details regarding the initial site assessment and proposed remediation activities.

From July 11 through August 27, 2018, remediation of the release site was conducted by third-party environmental contractors that are no longer affiliated with the site. In accordance with the NMOCD-approved work plan, the excavation was advanced vertically to depths ranging from one (1) foot bgs in the area characterized by sample point P1 to four (4) feet bgs in the areas characterized by sample points D1, D2, D5, and P2. Upon receipt of laboratory analytical results from confirmation soil samples, 40-mil plastic liners were installed on the floor of the excavation atop impacted soil affected above the NMOCD Closure Criteria in the areas characterized by sample points D1, D2, D5, and P2.

On October 15, 2018, a *Soil Remediation Closure Report* and Final Form C-141 were submitted to the NMOCD summarizing remediation activities and laboratory analytical results from confirmation soil samples. The Final Form C-141 was subsequently rejected by the NMOCD on the basis that excavation confirmation soil samples had not been analyzed for volatile organics (i.e., BTEX) by Environmental Protection Agency (EPA) Method 8021B; and MRO, DRO, and GRO by EPA Method 8015D.

Please reference the *Soil Remediation Closure Report* for additional details regarding remediation activities conducted at the release site.

In September 2022, a representative of Mewbourne consulted representatives of the NMOCD Artesia District Office in an effort to determine a path forward to a regulatory approved closure for the release site. It was determined that a series of test trenches would be required to demonstrate that horizontal delineation of the release had been adequately achieved in the pasture north of the Flower Draw 2 SWD, particularly the areas represented by sample points D1 through D5 and the lined area of the excavation (see Figures 3A and 3B).

The extents of the excavated areas and the locations of the 2018 test trenches, background samples, delineation samples, and excavation confirmation soil samples are depicted in Figures 3A and 3B. Copies of all recent regulatory correspondence are provided in Appendix E.

5.0 SITE ASSESSMENT SUMMARY

In October 2022, Mewbourne contracted Etech to assume remediation activities for the release site.

On December 15, 2022, in accordance with the NMOCD, Etech conducted a site visit to assess the current state of the release site and to perform a delineation event. A backhoe was utilized to advance a series of seven (7) test trenches (TT 1 through TT 7) along the inferred margins of the excavated and lined areas in the pasture in an effort to determine if horizontal delineation of the release had been achieved. During the advancement of the test trenches, soil samples were collected and field-screened utilizing olfactory/visual senses and/or a Hach Quantab® chloride test kit. The test trenches were advanced in one (1) foot increments to total depths of five (5) feet bgs each.

Based on field observations and field test data, a total of 42 delineation soil samples (TT 1 @ Surf. through TT 1 @ 5', TT 2 @ Surf. through TT 2 @ 5', TT 3 @ Surf. through TT 3 @ 5', TT 4 @ Surf. through TT 4 @ 5', TT 5 @ Surf. through TT 5 @ 5', TT 6 @ Surf. through TT 6 @ 5', and TT 7 @ Surf. through TT 7 @ 5') were submitted to a certified, commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from less than the laboratory MDL in soil samples TT 5 @ 2' and TT 6 @ Surf. to 320 mg/kg in soil sample TT 7 @ 3'. Based on these laboratory analytical results, the horizontal extent of impacted soil was adequately defined.

The locations of the test trenches are depicted in Figure 3B, "Site & Sample Location Map (Excavation)". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. Laboratory analytical reports are provided in Appendix C.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

In September 2018, upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. To ensure adequate regrowth of vegetation, affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

7.0 SOIL CLOSURE REQUEST

Laboratory analytical results from delineation soil samples indicate in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Based on these results and field observations made during the December 2022 delineation event, the remedial activities conducted at the site in 2018 were effective in remediating the release, and no further action is required.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne provide copies of this *Site Assessment Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Flower Draw 2 release site.

8.0 LIMITATIONS

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

This report has been prepared for the benefit of Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

9.0 DISTRIBUTION

Mewbourne Oil Company

*4801 Business Park Blvd.
Hobbs, NM 88240*

New Mexico Energy, Minerals and Natural Resources Department

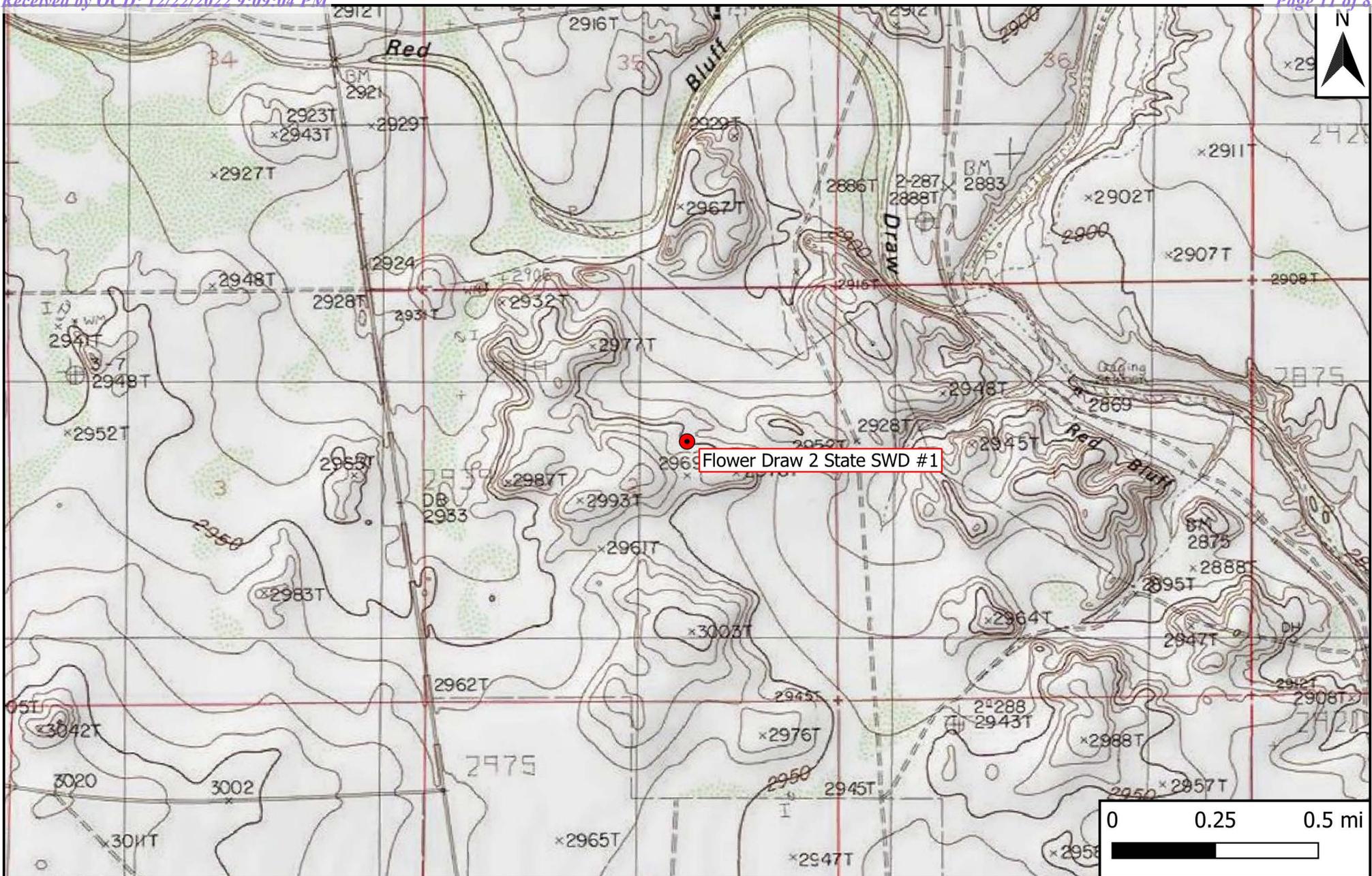
*Oil Conservation Division, District 1
1220 South St. Francis Drive
Santa Fe, NM 87505*

New Mexico State Land Office

*Hobbs Field Office
2827 North Dal Paso Street
Suite 117
Hobbs, NM 88240*

(Electronic Submission)

Figure 1 Topographic Map



Legend
 ● Site Location

Figure 1
 Topographic Map
 Mewbourne Oil Company
 Flower Draw 2 State SWD #1
 GPS: 32.0734402, -104.0556889
 Eddy County

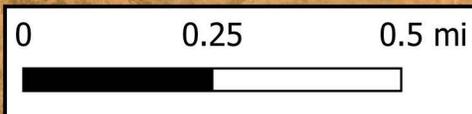
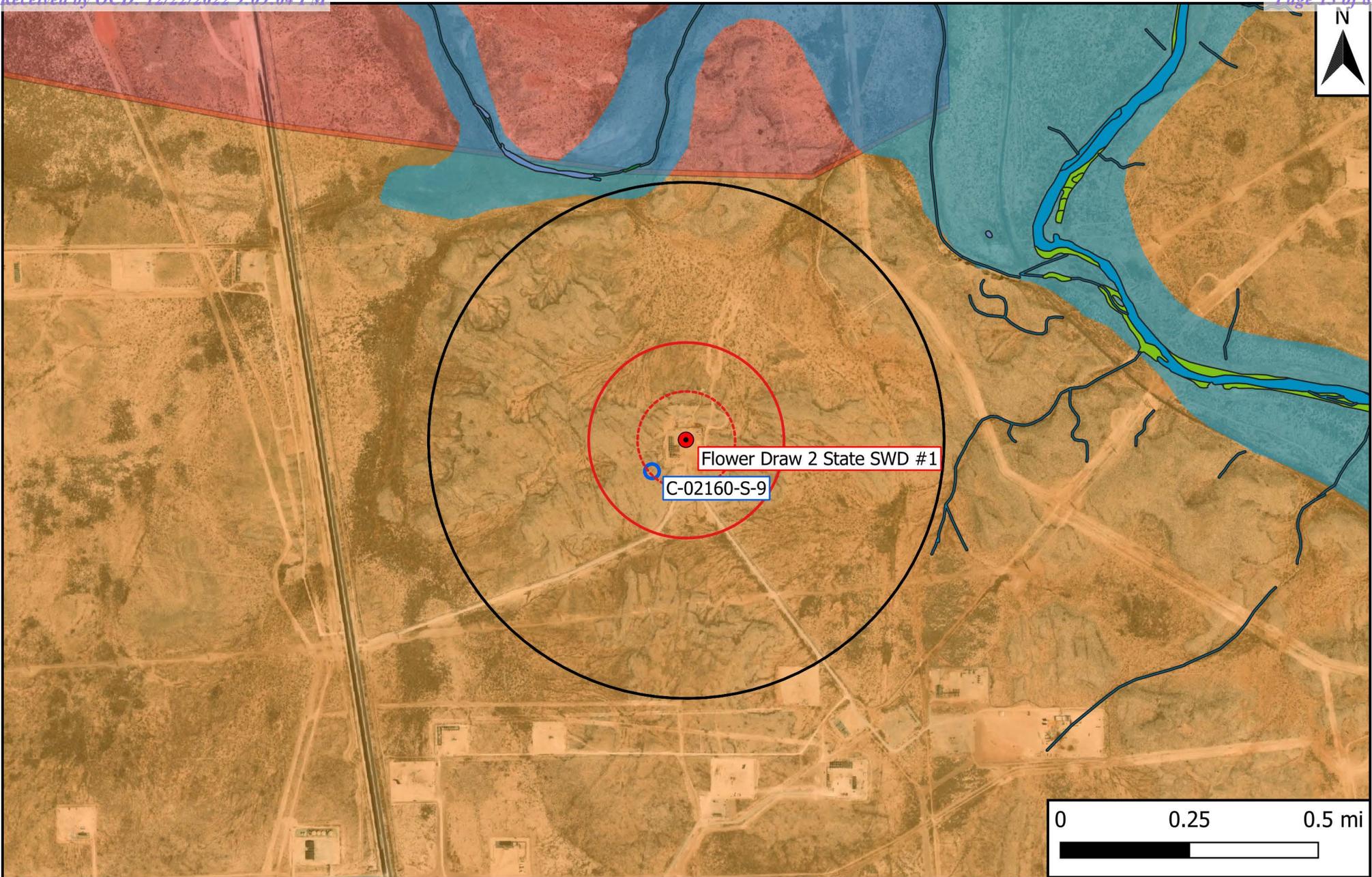


Drafted: bja

Checked: lc

Date: 12/12/22

Figure 2 Site Characterization Map



Legend

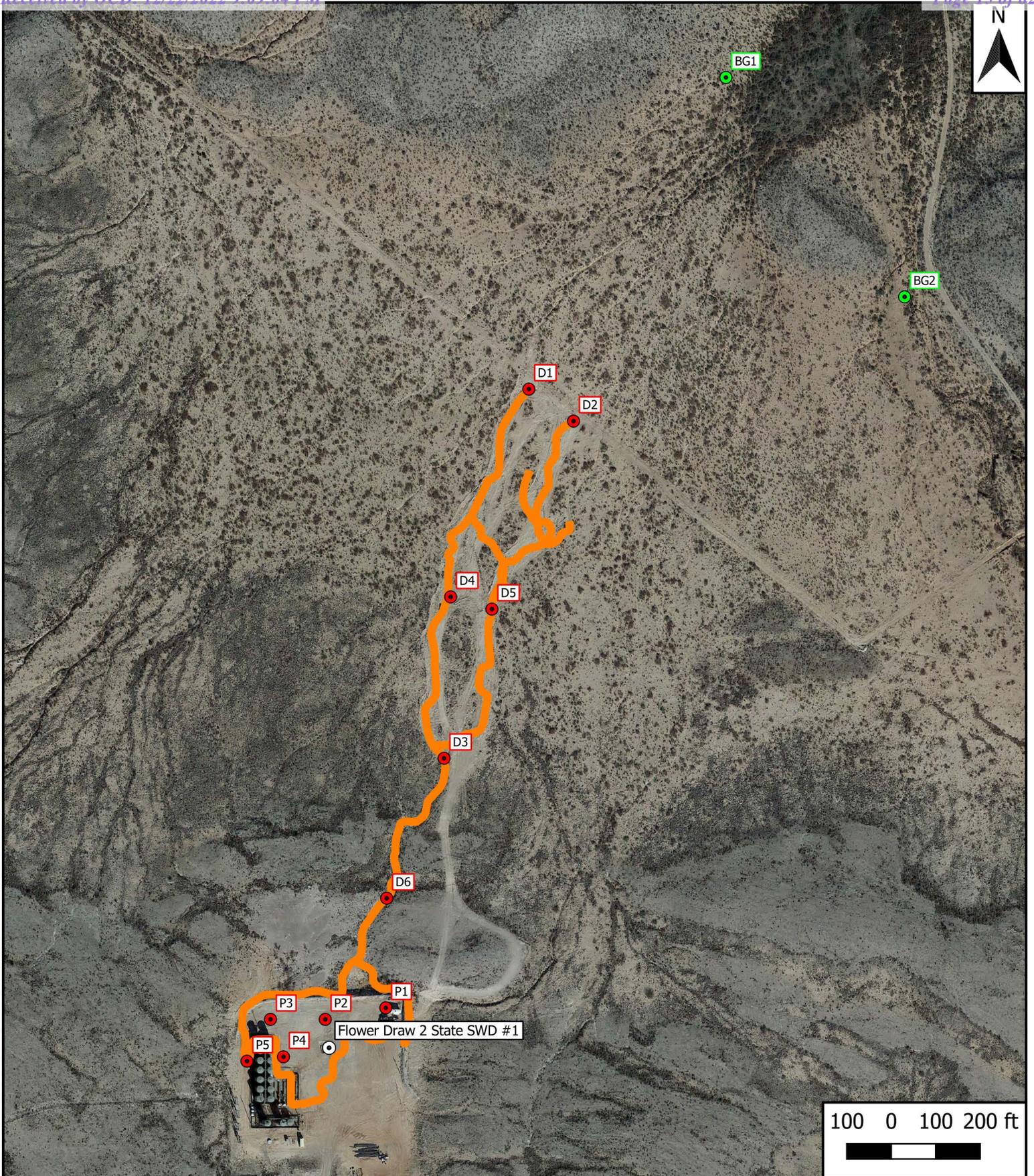
- Site Location
- Well - NMOSE
- Well - USGS
- Well - Exploratory/Monitor
- Potash Mine Workings
- 1% Annual Flood Chance
- Emergent/Forested Wetlands
- Freshwater Pond/Lake
- Karst Potential (Low/Med./High)
- Riverine
- 500-Ft Radius
- 1,000-Ft Radius
- 0.5-Mi Radius
- Municipal Boundary

Figure 2
 Site Characterization Map
 Mewbourne Oil Company
 Flower Draw 2 State SWD #1
 GPS: 32.0734402, -104.0556889
 Eddy County



Drafted: bja Checked: lc Date: 12/12/22

Figures 3A & 3B Site & Sample Location Maps



Legend

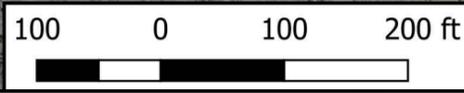
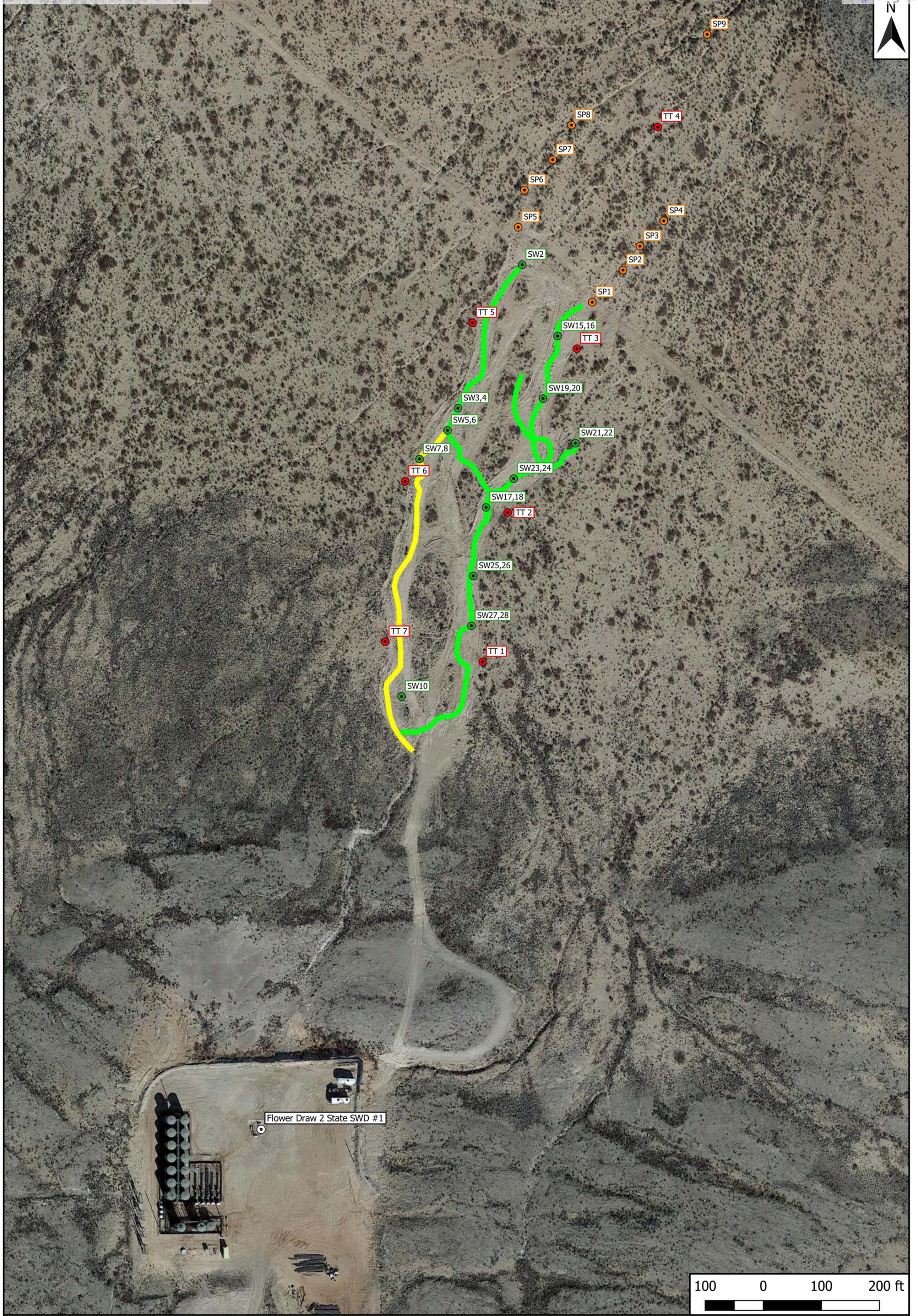
- Release
- Site Location
- Test Trench
- Background Sample Location

Figure 3A

Site & Sample Location Map
 (2018 Delineation)
 Mewbourne Oil Company
 Flower Draw 2 State SWD #1
 GPS: 32.0734402, -104.0556889



Drafted: bja Checked: lc Date: 12/22/22



Legend

Site Location	Excavation (2' bgs)
Delineation Sample Location (2018)	Excavation (4' bgs, Lined)
Excavation Sample Location (2018)	
Test Trench (2022)	

Figure 3B
 Site & Sample Location Map (Excavation)
 Mewbourne Oil Company
 Flower Draw 2 State SWD #1
 GPS: 32.0734402, -104.0556889
 Eddy County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: bja Checked: lc Date: 12/22/22

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Flower Draw 2 State SWD #1 NMOCD Ref. #: nAB1800552891											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	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)
TT 1 @ Surf.	12/15/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
TT 1 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
TT 1 @ 2'	12/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
TT 1 @ 3'	12/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
TT 1 @ 4'	12/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
TT 1 @ 5'	12/15/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
TT 2 @ Surf.	12/15/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
TT 2 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
TT 2 @ 2'	12/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
TT 2 @ 3'	12/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
TT 2 @ 4'	12/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
TT 2 @ 5'	12/15/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
TT 3 @ Surf.	12/15/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
TT 3 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
TT 3 @ 2'	12/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
TT 3 @ 3'	12/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
TT 3 @ 4'	12/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
TT 3 @ 5'	12/15/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
TT 4 @ Surf.	12/15/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
TT 4 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
TT 4 @ 2'	12/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
TT 4 @ 3'	12/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
TT 4 @ 4'	12/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
TT 4 @ 5'	12/15/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
TT 5 @ Surf.	12/15/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
TT 5 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
TT 5 @ 2'	12/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
TT 5 @ 3'	12/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
TT 5 @ 4'	12/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
TT 5 @ 5'	12/15/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
TT 6 @ Surf.	12/15/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
TT 6 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
TT 6 @ 2'	12/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
TT 6 @ 3'	12/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
TT 6 @ 4'	12/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
TT 6 @ 5'	12/15/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
TT 7 @ Surf.	12/15/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
TT 7 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
TT 7 @ 2'	12/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
TT 7 @ 3'	12/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
TT 7 @ 4'	12/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
TT 7 @ 5'	12/15/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

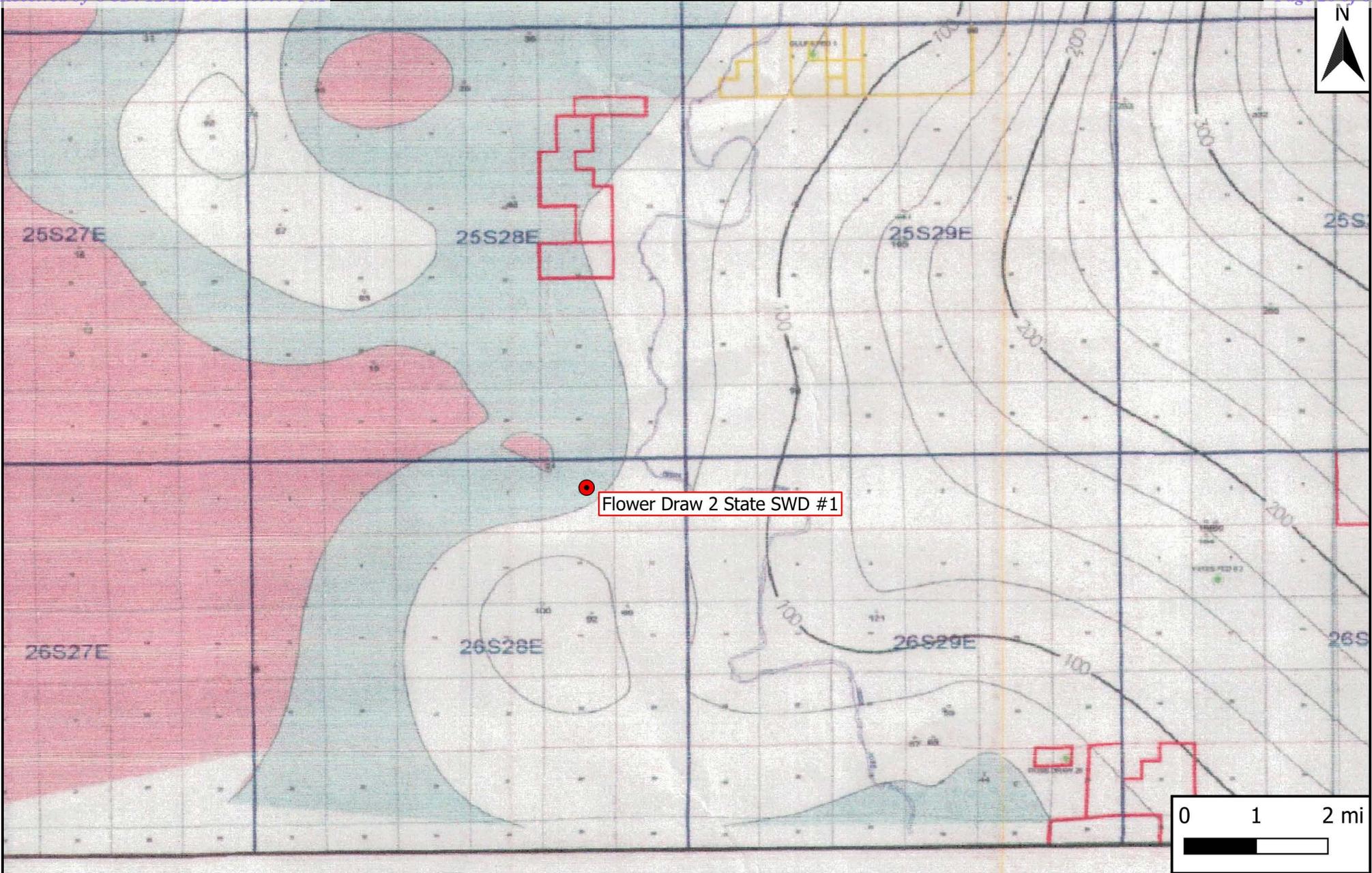
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



Legend
 ● Site Location

Figure 4
 Inferred Depth to Groundwater Trend Map
 Mewbourne Oil Company
 Flower Draw 2 State SWD #1
 GPS: 32.0734402, -104.0556889
 Eddy County



Drafted: bja

Checked: lc

Date: 12/15/22



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	POD Code	Sub-basin	County	Q 6	Q 16	Q 4	Sec 02	Tws 26S	Rng 28E	X 589020	Y 3548868*	Distance	DepthWell	DepthWater	Water Column
C_02160_S9	CUB	ED		3	3	2	02	26S	28E	589020	3548868*	144	300	120	180

Average Depth to Water: **120 feet**

Minimum Depth: **120 feet**

Maximum Depth: **120 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 589127

Northing (Y): 3548964.38

Radius: 804.67

*UTM location was derived from PLSS - see Help

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

10/17/22 8:15 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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
C	02160 S9	3	3	2	02	26S	28E	589020	3548868*

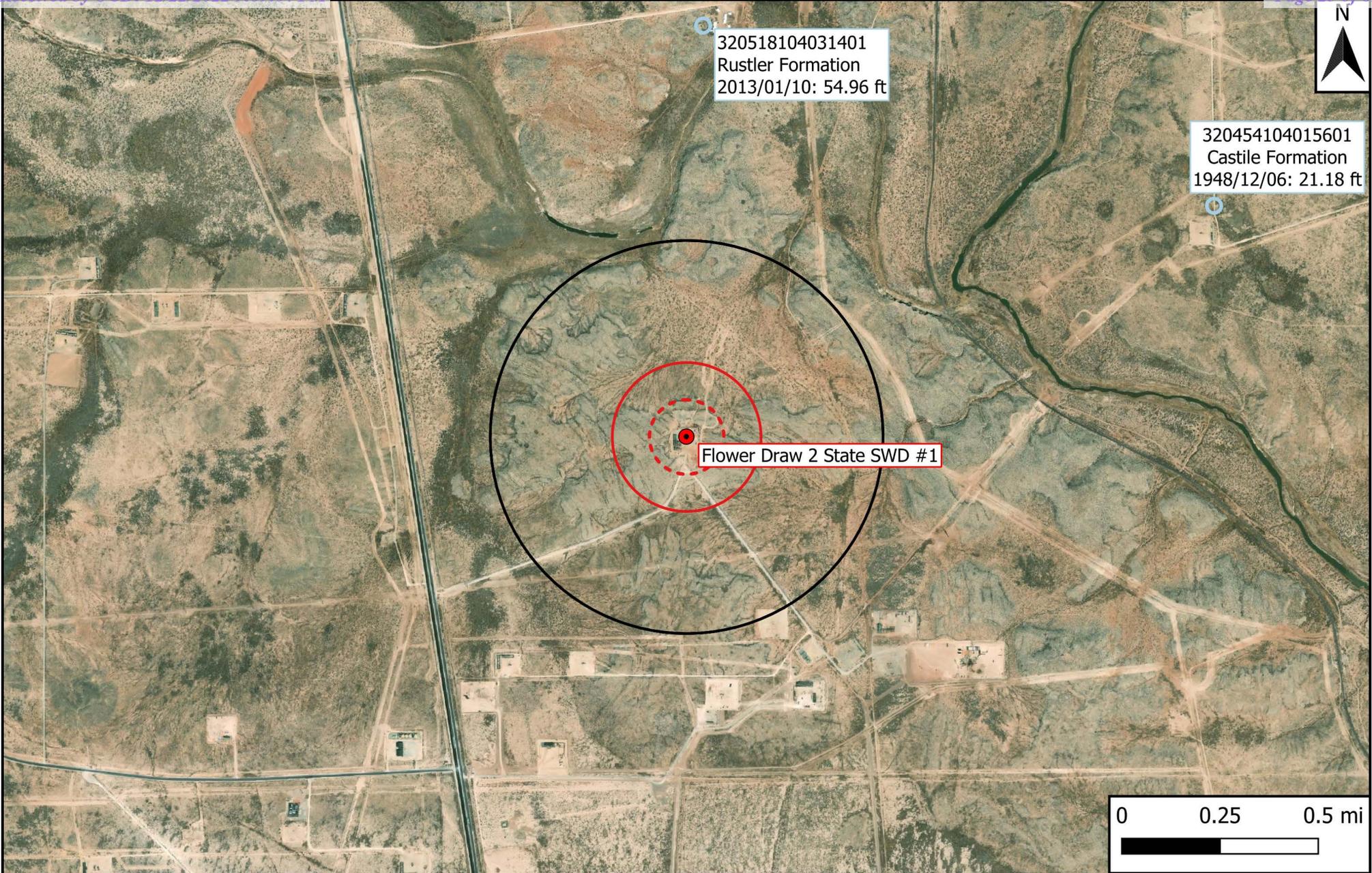
Driller License:	Driller Company:	
Driller Name: HEMLER		
Drill Start Date:	Drill Finish Date: 06/01/1961	Plug Date:
Log File Date:	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well: 300 feet	Depth Water: 120 feet

*UTM location was derived from PLSS - see Help

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10/17/22 8:16 AM

POINT OF DIVERSION SUMMARY



- Legend**
- Site Location
 - Well - USGS
 - ⊞ 500-Ft Radius
 - ⊞ 1,000-Ft Radius
 - ⊞ 0.5-Mi Radius

Figure 5
 USGS Well Proximity Map
 Mewbourne Oil Company
 Flower Draw 2 State SWD #1
 GPS: 32.0734402, -104.0556889
 Eddy County



Drafted: bja

Checked: lc

Date: 12/15/22



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Data Category: Groundwater Geographic Area: United States GO

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
• 320518104031401

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 320518104031401 25S.28E.35.2324

Eddy County, New Mexico
Latitude 32°05'19.0", Longitude 104°03'17.3" NAD83
Land-surface elevation 2,897 feet above NGVD29
The depth of the well is 180 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

[Table of data](#)
[Tab-separated data](#)
[Graph of data](#)
[Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1982-12-08			D	72019	45.85		1	S	USGS	S	A
1987-10-14			D	72019	42.01		1	S	USGS	S	A
1998-01-23			D	72019	53.18		1	S	USGS	S	A
2003-02-10			D	72019	54.32		1	S	USGS	S	A
2013-01-10	18:00 UTC	m		72019	54.96		1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

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



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Page Last Modified: 2022-12-21 21:46:47 EST

0.29 0.24 nadww01



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Search Results -- 1 sites found

Agency code = usgs
site_no list =
• 320454104015601

Minimum number of levels = 1

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USGS 320454104015601 26S.28E.02.112111

Eddy County, New Mexico
Latitude 32°04'54", Longitude 104°01'56" NAD27
Land-surface elevation 2,913 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

- [Table of data](#)
- [Tab-separated data](#)
- [Graph of data](#)
- [Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1948-12-06		D	72019	21.18			1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-12-21 21:45:48 EST

0.38 0.25 nadww01

Appendix B Field Data



Sample Log

Date: 12-15-22

Project: #N/A

Project Number: #N/A Latitude: #N/A Longitude: #N/A

Sample ID	PID/Odor	Chloride Conc.	
TT1e Surf.	-	292	TT7e Surf. 328
TT1e1'	-	228	TT7e1' 200
TT1e2'	-	408	TT7e2' 260
TT1e3'	-	292	TT7e3' 368
TT1e4'	-	228	TT7e4' 260
TT1e5'	-	148	TT7e5' 408
TT2e Surf.	-	408	
TT2e1'	-	148	
TT2e2'	-	228	
TT2e3'	-	292	
TT2e4'	-	292	
TT2e5'	-	228	
TT3e Surf.	-	292	
TT3e1'	-	292	
TT3e2'	-	228	
TT3e3'	-	292	
TT3e4'	-	408	
TT3e5'	-	148	
TT4e Surf.	-	292	
TT4e1'	-	200	
TT4e2'	-	408	
TT4e3'	-	172	
TT4e4'	-	408	
TT4e5'	-	200	
TT5e Surf.	-	172	
TT5e1'	-	172	
TT5e2'	-	292	
TT5e3'	-	408	
TT5e4'	-	500	
TT5e5'	-	500	
TT6e Surf.	-	200	
TT6e1'	-	408	
TT6e2'	-	408	
TT6e3'	-	200	
TT6e4'	-	292	
TT6e5'	-	500	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Appendix C

Laboratory Analytical Reports



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

December 16, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FLOWER DRAW 2 STATE SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 12/15/22 16:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 1 @ SURF. (H225943-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.12	106	2.00	0.183	
Toluene*	<0.050	0.050	12/16/2022	ND	2.24	112	2.00	0.760	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.19	110	2.00	0.265	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.72	112	6.00	0.351	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/15/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/15/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 1 @ 1' (H225943-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/15/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/15/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 1 @ 2' (H225943-03)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41		
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44		
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39		
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74		
Total BTEX	<0.300	0.300	12/16/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/16/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/15/2022	ND	220	110	200	9.84		
DRO >C10-C28*	<10.0	10.0	12/15/2022	ND	205	103	200	5.93		
EXT DRO >C28-C36	<10.0	10.0	12/15/2022	ND						

Surrogate: 1-Chlorooctane 97.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 1 @ 3' (H225943-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/15/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/15/2022	ND					

Surrogate: 1-Chlorooctane 98.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 1 @ 4' (H225943-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 1 @ 5' (H225943-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 2 @ SURF. (H225943-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 2 @ 1' (H225943-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 2 @ 2' (H225943-09)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 2 @ 3' (H225943-10)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 2 @ 4' (H225943-11)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 2 @ 5' (H225943-12)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 3 @ SURF. (H225943-13)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 3 @ 1' (H225943-14)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.2 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 3 @ 2' (H225943-15)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 3 @ 3' (H225943-16)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 3 @ 4' (H225943-17)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 3 @ 5' (H225943-18)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 95.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 4 @ SURF. (H225943-19)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 4 @ 1' (H225943-20)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41	
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	220	110	200	9.84	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	205	103	200	5.93	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 4 @ 2' (H225943-21)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	4.41		
Toluene*	<0.050	0.050	12/16/2022	ND	2.04	102	2.00	3.44		
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.00	100	2.00	4.39		
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.16	103	6.00	4.74		
Total BTEX	<0.300	0.300	12/16/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/15/2022	ND	201	101	200	1.43		
DRO >C10-C28*	<10.0	10.0	12/15/2022	ND	217	108	200	3.18		
EXT DRO >C28-C36	<10.0	10.0	12/15/2022	ND						

Surrogate: 1-Chlorooctane 82.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 4 @ 3' (H225943-22)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/15/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/15/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.3 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 4 @ 4' (H225943-23)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/15/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/15/2022	ND					

Surrogate: 1-Chlorooctane 80.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 4 @ 5' (H225943-24)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/15/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/15/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 5 @ SURF. (H225943-25)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/15/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/15/2022	ND					

Surrogate: 1-Chlorooctane 73.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 5 @ 1' (H225943-26)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/15/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/15/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 5 @ 2' (H225943-27)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/15/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/15/2022	ND					

Surrogate: 1-Chlorooctane 74.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 5 @ 3' (H225943-28)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/15/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/15/2022	ND					

Surrogate: 1-Chlorooctane 96.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 5 @ 4' (H225943-29)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 86.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 5 @ 5' (H225943-30)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.6 % 46.3-178

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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 6 @ SURF. (H225943-31)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.6 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 6 @ 1' (H225943-32)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 97.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 6 @ 2' (H225943-33)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 6 @ 3' (H225943-34)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.7 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 6 @ 4' (H225943-35)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 6 @ 5' (H225943-36)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.1 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 7 @ SURF. (H225943-37)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 7 @ 1' (H225943-38)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 74.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.0 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 7 @ 2' (H225943-39)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 60.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 66.6 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 7 @ 3' (H225943-40)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	201	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	217	108	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 7 @ 4' (H225943-41)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.17	108	2.00	3.25	
Toluene*	<0.050	0.050	12/16/2022	ND	2.21	110	2.00	3.58	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.23	112	2.00	3.99	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.73	112	6.00	3.35	
Total BTEX	<0.300	0.300	12/16/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	208	104	200	8.09	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	202	101	200	17.8	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	12/15/2022	Sampling Date:	12/15/2022
Reported:	12/16/2022	Sampling Type:	Soil
Project Name:	FLOWER DRAW 2 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	16917	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT 7 @ 5' (H225943-42)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2022	ND	2.13	106	2.00	6.90		
Toluene*	<0.050	0.050	12/16/2022	ND	2.24	112	2.00	7.13		
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.19	109	2.00	6.92		
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.70	112	6.00	6.58		
Total BTEX	<0.300	0.300	12/16/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	200	99.8	200	7.26		
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	219	110	200	4.65		
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND						

Surrogate: 1-Chlorooctane 84.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Rush

3 of 5

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO				ANALYSIS REQUEST															
Project Manager: <i>Lance Crenshaw</i>		P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>															
Address: 2617 W Marland		Company: <i>Mewbourne</i>																			
City: Hobbs State: NM Zip: 88240		Attn: <i>Conner Walker</i>																			
Phone #: (575) 264-9884 Fax #:		Address: <i>4801 Business Pk Blvd</i>																			
Project #: <i>16917</i> Project Owner: <i>Mewbourne</i>		City: <i>Hobbs</i>																			
Project Name: <i>Flower Draw 2 State SWD#1</i>		State: <i>NM</i> Zip: <i>88240</i>																			
Project Location:		Phone #:																			
Sampler Name: <i>Eric Mojica</i>		Fax #:																			
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE /COOL	OTHER :	DATE	TIME							
<i>H225943</i>																					
<i>21</i>	<i>TT 4' 2'</i>	<i>G</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>12-15-22</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>				
<i>22</i>	<i>TT 4' 3'</i>	<i>G</i>	<i>1</i>			<i>✓</i>				<i>✓</i>					<i>✓</i>	<i>✓</i>	<i>✓</i>				
<i>23</i>	<i>TT 4' 4'</i>	<i>G</i>	<i>1</i>			<i>✓</i>				<i>✓</i>					<i>✓</i>	<i>✓</i>	<i>✓</i>				
<i>24</i>	<i>TT 4' 5'</i>	<i>G</i>	<i>1</i>			<i>✓</i>				<i>✓</i>					<i>✓</i>	<i>✓</i>	<i>✓</i>				
<i>25</i>	<i>TT 5e Surf.</i>	<i>G</i>	<i>1</i>			<i>✓</i>				<i>✓</i>					<i>✓</i>	<i>✓</i>	<i>✓</i>				
<i>26</i>	<i>TT 5' 1'</i>	<i>G</i>	<i>1</i>			<i>✓</i>				<i>✓</i>					<i>✓</i>	<i>✓</i>	<i>✓</i>				
<i>27</i>	<i>TT 5' 2'</i>	<i>G</i>	<i>1</i>			<i>✓</i>				<i>✓</i>					<i>✓</i>	<i>✓</i>	<i>✓</i>				
<i>28</i>	<i>TT 5' 3'</i>	<i>G</i>	<i>1</i>			<i>✓</i>				<i>✓</i>					<i>✓</i>	<i>✓</i>	<i>✓</i>				
<i>29</i>	<i>TT 5' 4'</i>	<i>G</i>	<i>1</i>			<i>✓</i>				<i>✓</i>					<i>✓</i>	<i>✓</i>	<i>✓</i>				
<i>30</i>	<i>TT 5' 5'</i>	<i>G</i>	<i>1</i>			<i>✓</i>				<i>✓</i>					<i>✓</i>	<i>✓</i>	<i>✓</i>				
<small>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																					
Relinquished By: <i>Eric Mojica</i>		Date: <i>12-15-22</i>		Received By: <i>Jamara Aldrete</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:													
		Time: <i>1648</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:													
Relinquished By:		Date:		Received By:		REMARKS:															
		Time:				Please email results and copy of CoC to pm@etechenv.com.															
Delivered By: (Circle One)		#113		Sample Condition		CHECKED BY: (Initials)															
Sampler - UPS - Bus - Other:		<i>3.0e / 2.4e</i>		Cool Intact		<i>J.O.</i>															
				<input type="checkbox"/> Yes <input type="checkbox"/> No																	
				<input type="checkbox"/> No <input type="checkbox"/> No																	



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Rush

4-f5

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST																																																																																					
Project Manager: Lance Crenshaw		P.O. #:		<table border="1"> <tr><td>Chloride</td><td>TPH (8015M)</td><td>BTEX (8021B)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>						Chloride	TPH (8015M)	BTEX (8021B)																																																																													
Chloride	TPH (8015M)	BTEX (8021B)																																																																																							
Address: 2617 W Marland		Company: Menbourne																																																																																							
City: Hobbs	State: NM	Zip: 88240	Attn: Conner Walker																																																																																						
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Project Location:		State: NM Zip: 88240																																																																																							
Sampler Name: Eric Mojica		Phone #:																																																																																							
		Fax #:																																																																																							

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / GEL	OTHER :						
	H225943																		
	31	TT6e Surf.	G	1			✓				✓			12-15-22		✓	✓	✓	
	32	TT6o1'	G	1			✓				✓					✓	✓	✓	
	33	TT6e2'	G	1			✓				✓					✓	✓	✓	
	34	TT6e3'	G	1			✓				✓					✓	✓	✓	
	35	TT6e4'	G	1			✓				✓					✓	✓	✓	
	36	TT6e5'	G	1			✓				✓					✓	✓	✓	
	37	TT7e Surf.	G	1			✓				✓					✓	✓	✓	
	38	TT7o1'	G	1			✓				✓					✓	✓	✓	
	39	TT7e2'	G	1			✓				✓					✓	✓	✓	
	40	TT7e3'	G	1			✓				✓					✓	✓	✓	

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Relinquished By: Eric Mojica	Date: 12-15-22	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Time: 1648	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	REMARKS:	
Temperature: 3.0°C / 2.4°C	Checked By: (Initials) TJ	Please email results and copy of CoC to pm@etechenv.com.		

Appendix D

Regulatory Correspondence

From: [Connor Walker](#)
To: [Lance Crenshaw](#); [Ben Arguijo](#)
Cc: [Jeff Broom](#)
Subject: FW: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 50106
Date: Thursday, December 22, 2022 11:47:25 AM

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, September 20, 2022 1:45 PM
To: Connor Walker <cwalker@mewbourne.com>
Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 50106

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1800552891, for the following reasons:

- **Incomplete laboratory analytical results. Per approved workplan, all samples were to be analyzed for chlorides by Method 300.0, volatile organics (BTEX) by Method 8021B, and MRO, DRO, and GRO by EPA Method 8015D.**
- **2RP-4541 closed. Please include incident #NAB1800552891 in all future correspondence.**
- **Please submit a closure report through the OCD Permitting Portal by 12/23/2022.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 50106.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Brittany Hall
Environmental Specialist - A
505-334-6178
Brittany.Hall@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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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 169652

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 169652
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Please include all regulatory correspondence in future reports.	12/27/2022