

Incident ID	nAPP2120037259
District RP	
Facility ID	
Application ID	

Remediation Plan


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

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

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

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

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

Printed Name: Connor Walker Title: Sr. Engineer
Signature:  Date: 6/21/2023
email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

Received by: Shelly Wells Date: 6/22/2023

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

Signature: Robert Hamlet Date: 11/21/2023

Incident ID	nAPP2120037259
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

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

Signature: _____ Date: _____

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OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

NOTICE

To aid in record keeping, the following “Remediation Summary & Deferral Request” has been submitted via the NMOCD Online Payment Portal for Incident ID #'s nAPP2120037259 (release date 7/8/2021) and nAPP2212348289 (release date 4/21/2022).

Remediation Summary & Deferral Request

Mewbourne Oil Company Top Gun Federal SWD #1

Eddy County, New Mexico

Unit Letter "A", Section 18, Township 23 South, Range 27 East

Latitude 32.3100060 North, Longitude 104.223121 West



NMOCD Reference No. nAPP2120037259, nAPP2120038621 & nAPP2212348289

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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Appendix A - Depth to Groundwater Information
Appendix B - Field Data & Soil Profile Log
Appendix C - Photographic Log
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Appendix E - Laboratory Analytical Reports
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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Deferral Request* for the releases known as the Top Gun Federal SWD #1. A release on April 21, 2022 (NMOCD Incident #nAPP2212348289), affected areas that had been previously impacted by a release that occurred on July 8, 2021 (NMOCD Incident #nAPP2120037259). The releases were limited to the caliche production pad for the facility and did not impact the adjacent pasture.

Details of the individual releases are summarized below. The areas affected by the commingled releases (henceforth referred to collectively as "Top Gun") were delineated and remediated concurrently.

nAPP2120037259

Location of Release Source

Latitude: 32.310282 Longitude: -104.222821

Provided GPS are in WGS84 format.

Site Name:	Top Gun Fed SWD #1	Site Type:	Salt Water Disposal (SWD)
Date Release Discovered:	7/8/2021	API # (if applicable):	30-015-31075

Unit Letter	Section	Township	Range	County
"A"	18	23S	27E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ 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) 3,516	Volume Recovered (bbls) 3,360
	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: A connection on the wellhead failed.		

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.

nAPP2212348289**Location of Release Source**Latitude: 32.3100060 Longitude: -104.223121

Provided GPS are in WGS84 format.

Site Name:	Top Gun Federal SWD #1 (4212022)	Site Type:	Pipeline
Date Release Discovered:	4/21/2022	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
"A"	18	23S	27E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ 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) 64	Volume Recovered (bbls) 0
	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:

A joint of 12" poly pipeline developed a leak.

Initial Response

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

Previously submitted portions of the NMOCD Form C-141 for each release are available in the NMOCD Imaging System.

Please note that a duplicate Notification of Release (NOR) was inadvertently submitted for the July 8, 2021, release and was assigned Incident ID #nAPP2120038621.

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 Top Gun release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	100'	
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
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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
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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 type="checkbox"/> Yes	<input checked="" 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 Top Gun release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
100'	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 INITIAL SITE ASSESSMENT

On July 22, 2022, Etech conducted an initial site assessment. During the site assessment, a series of test trenches (TT-1 through TT-10) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. During the advancement of the test trenches, soil samples were collected and field-screened for concentrations of chloride utilizing a Hach Quantab® chloride test kit and/or the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses. The test trenches were advanced in one (1) to two (2) foot increments until field observations and field tests suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards or until refusal was met.

Based on field observations and field test data, a total of 32 delineation soil samples (TT-1 Surface Sample, TT-1 @ 2', TT-1 @ 4', TT-2 Surface Sample, TT-2 @ 2', TT-2 @ 3', TT-3 Surface Sample, TT-3 @ 2', TT-3 @ 3', TT-4 Surface Sample, TT-4 @ 2', TT-4 @ 2', TT-5 Surface Sample, TT-5 @ 2', TT-5 @ 4', TT-5 @ 6', TT-6 Surface Sample, TT-6 @ 2', TT-6 @ 2', TT-7 Surface Sample, TT-7 @ 2', TT-7 @ 4', TT-8 Surface Sample, TT-8 @ 2', TT-8 @ 4', TT-8 @ 6' Refusal, TT-9 Surface Sample, TT-9 @ 2', TT-9 @ 3', TT-10 Surface Sample, TT-10 @ 2', and TT-10 @ 3') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that the vertical extent of impacted soil was adequately defined and ranged from approximately two (2) feet below ground surface (bgs) in the areas characterized by test trenches TT-1, TT-3, TT-4, TT-6, TT-7, TT-9, and TT-10 to six (6) feet bgs in the areas characterized by test trenches TT-5 and TT-8.

The locations of the test trenches are depicted in Figure 3A, "Site & Sample Location Map (Delineation)".

5.0 REMEDIATION ACTIVITIES SUMMARY

On August 11, 2022, remediation activities commenced at the Top Gun release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On August 12, 2022, Etech collected 15 confirmation soil samples (FS 1 @ 4' through FS 15 @ 2') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory method detection limit (MDL) in each of the submitted soil samples. Chloride concentrations ranged from 64.0 mg/kg in soil sample FS 5 @ 3' to 1,120 mg/kg in soil sample FS 1 @ 4'. Chloride concentrations in soil samples FS 1 @ 4', FS 2 @ 6', FS 7 @ 3', FS 10 @ 5', and FS 12 @ 6' exceeded the NMOCD Closure Criterion and/or NMOCD Reclamation Standard.

On August 15, 2022, Etech collected 20 confirmation soil samples (FS 16 @ 6' through FS 35 @ 2') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 32.0 mg/kg in soil sample FS 23 @ 2' to 1,980 mg/kg in soil sample FS 17 @ 6'. Chloride concentrations in soil samples FS 16 @ 6', FS 17 @ 6', and FS 28 @ 3' exceeded the NMOCD Closure Criterion and/or NMOCD Reclamation Standard.

On August 18, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FS 1 @ 4', FS 2 @ 6', FS 7 @ 3', FS 10 @ 5', and FS 12 @ 6'. Etech collected 18 confirmation soil samples

(NWS 1 through NWS 4, WWS 1, WWS 2, WWS 3, FS 1 @ 6.5', FS 2 @ 6.5', FS 7 @ 4', FS 10 @ 6.5', FS 12 @ 6.5', and FS 40 @ 6' through FS 45 @ 6') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 112 mg/kg in soil sample FS 10 @ 6.5' to 640 mg/kg in soil samples FS 41 @ 6' and FS 45 @ 6'. Chloride concentrations in soil samples FS 41 @ 6' and FS 45 @ 6' exceeded the NMOCD Closure Criterion.

On August 19, 2022, Etech collected six (6) confirmation soil samples (36 @ 6' through 39 @ 6', 49 @ 6', and 52 @ 3') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that 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 less than the applicable laboratory MDL. Chloride concentrations ranged from 304 mg/kg in soil samples 36 @ 6' and 37 @ 6' to 544 mg/kg in soil sample 52 @ 3'.

On August 23, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FS 16 @ 6', FS 17 @ 6', and FS 28 @ 3'. Etech collected 15 confirmation soil samples (FS 16 @ 10', FS 17 @ 10', FS 28 @ 4', FS 46 @ 4', FS 47 @ 6', FS 48 @ 4', FS 50 @ 6', FS 51 @ 6', and FS 53 @ 2' through FS 59 @ 2') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH 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 less than the applicable laboratory MDL, with the exception of soil sample FS 54 @ 3', which exhibited a TPH concentration of 11.0 mg/kg. Chloride concentrations ranged from 80.0 mg/kg in soil sample FS 53 @ 2' to 1,260 mg/kg in soil sample FS 59 @ 2', which exceeded the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On August 25, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FS 41 @ 6' and FS 45 @ 6'. Etech collected 14 confirmation soil samples (FS 41 @ 7', FS 45 @ 7', and FS 60 @ 4' through FS 71 @ 2') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH 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 less than the applicable laboratory MDL, with the exception of soil sample FS 61 @ 9', which exhibited a TPH concentration of 37.0 mg/kg. Chloride concentrations ranged from 32.0 mg/kg in soil sample FS 67 @ 2' to 624 mg/kg in soil sample FS 71 @ 2', which exceeded the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On August 26, 2022, Etech collected 10 confirmation soil samples (FS 72 @ 3' through FS 81 @ 2') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that 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 less than the applicable laboratory MDL. Chloride concentrations ranged from 64.0 mg/kg in soil sample FS 75 @ 2' to 480 mg/kg in soil sample FS 80 @ 2'.

On August 30, 2022, Etech collected 10 confirmation soil samples (FS 82 @ 2' through FS 91 @ 3') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 80.0 mg/kg in soil sample FS 90 @ 2' to 608 mg/kg in soil sample FS 85 @ 2', which exceeded the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On September 1, 2022, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FS 59 @ 2'. Etech collected 10 confirmation soil samples (FS 59 @ 3' and FS 92 @ 2' through FS 100 @ 4') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride.

Laboratory analytical results indicated that 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 less than the applicable laboratory MDL. Chloride concentrations ranged from 112 mg/kg in soil sample FS 97 @ 4' to 384 mg/kg in soil sample FS 92 @ 2'.

On September 2, 2022, Etech collected 32 confirmation soil samples (FS 101 @ 4' through FS 132 @ 2') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH 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 less than the applicable laboratory MDL, with the exception of soil sample FS 129 @ 3', which exhibited a TPH concentration of 13.8 mg/kg. Chloride concentrations ranged from 48.0 mg/kg in soil sample FS 111 @ 3' to 624 mg/kg in soil sample FS 109 @ 2', which exceeded the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On September 6, 2022, Etech advanced a series of hand-augered soil bores (DFS 1 through DFS 5) to further characterize the affected area adjacent to and/or beneath the on-site storage tanks, containment area, and associated piping, appurtenances, and electrical facilities requiring deferral of remediation (henceforth, "Deferral Area"). During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of VOCs utilizing olfactory/visual senses. The soil bores were advanced in one (1) foot increments until field observations and field tests suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

Based on field observations and field test data, a total of 26 deferral characterization soil samples (DFS 1 @ Surface, DFS 1 @ 1', DFS 1 @ 2', DFS 1 @ 3', DFS 1 @ 4', DFS 1 @ 5', DFS 1 @ 6', DFS 2 @ Surface, DFS 2 @ 1', DFS 2 @ 2', DFS 2 @ 3', DFS 2 @ 4', DFS 3 @ Surface, DFS 3 @ 1', DFS 3 @ 2', DFS 3 @ 3', DFS 3 @ 4', DFS 3 @ 5', DFS 3 @ 6', DFS 4 @ Surface, DFS 4 @ 1', DFS 4 @ 2', DFS 4 @ 3', DFS 5 @ Surface, DFS 5 @ 1', and DFS 5 @ 2') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined and ranged from approximately two (2) feet bgs in the areas characterized by sample points DFS 4 and DFS 5 to six (6) feet bgs in the areas characterized by sample points DFS 1 and DFS 3.

On September 6, 2022, Etech also collected two (2) confirmation soil samples (NWS 5 and EWS 1) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that 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 less than the applicable laboratory MDL. Chloride concentrations ranged from 160 mg/kg in soil sample NWS 5 to 448 mg/kg in soil sample EWS 1.

On September 9, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FS 71 @ 2', FS 85 @ 2', and FS 109 @ 2'. Etech collected three (3) confirmation soil samples (FS 71 @ 3', FS 85 @ 3', and FS 109 @ 3') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated that chloride concentrations were below the NMOCD Closure Criterion and NMOCD Reclamation Standard in each of the submitted soil samples and ranged from 64.0 mg/kg in soil sample FS 109 @ 3' to 240 mg/kg in soil sample FS 71 @ 3'.

On February 23, 2023, Etech advanced a series of hand-augered soil bores (DFS 6 through DFS 10) to further characterize impacted soil in the Deferral Area. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of VOCs utilizing olfactory/visual senses. The soil bores were advanced in one (1) foot increments until field observations and field tests suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards.

Based on field observations and field test data, a total of 16 deferral characterization soil samples (DFS 6 @ Surface, DFS 6 @ 1', DFS 7 @ Surface, DFS 7 @ 1', DFS 7 @ 2', DFS 8 @ Surface, DFS 8 @ 1', DFS 8 @ 2', DFS 8 @ 3', DFS 8 @ 4', DFS 9 @ Surface, DFS 9 @ 1', DFS 10 @ Surface, DFS 10 @ 1', DFS 10 @ 2', and DFS 10 @ 3') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined and ranged from approximately two (2) feet bgs in the area characterized by sample point DFS 8 to three (3) feet bgs in the area characterized by sample point DFS 10. Soil was not affected beyond ground surface in the areas characterized by sample points DFS 6, DFS 7, and DFS 9.

The final dimensions of the excavated area were approximately 320 feet in length, 20 to 214 feet in width, and 2 to 10 feet in depth. During the course of remediation activities, Etech transported approximately 5,180 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 5,180 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extents of the excavated area and the Deferral Area are depicted in Figure 3B, "Site & Sample Location Map (Excavation)". Soil chemistry data is summarized in Table 1. Field data and a soil profile log are provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix E. Copies of all regulatory correspondence are provided in Appendix F.

6.0 IN-SITU CHLORIDE MIGRATION MODELING

Etech utilized the Environmental Protection Agency's (EPA) Multimedia Exposure Assessment Model (MULTIMED) to determine if the contamination remaining in-situ in the Deferral Area poses a threat to groundwater quality. The most appropriate and conservative parameter values possible for the site were used for the assessment model in regard to depth to groundwater (100 feet bgs), deepest depth investigated, etc. Additional parameter values were utilized that have been previously approved by the NMOCD as being representative of the general area and for simulating unlined excavations and/or oil and gas facilities.

The MULTIMED model indicates that the concentration of chloride contributed to the underlying groundwater will not exceed the standard of 250 mg/L until approximately 160 years have lapsed (see Appendix D). Pursuant to Section 19.15.29.12.C(2) NMAC, the model effectively demonstrates that leaving the contamination in-situ in the Deferral Area (characterized by sample points DFS1 through DFS10) "does not cause an imminent risk to human health, the environment, or ground water".

7.0 DEFERRAL REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated to the extent practicable and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate in-situ concentrations of BTEX and TPH are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Remediation of chloride-impacted soil affected above the NMOCD Closure Criteria remaining in-situ in the Deferral Area will be completed upon decommissioning and abandonment of the SWD facility, in accordance with Sections 19.15.29.12 and 19.15.29.13 NMAC.

8.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

The release was limited to the production pad and containment areas of an active tank battery. 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 areas were compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Final reclamation and re-vegetation of the Deferral Area will be conducted upon decommissioning and abandonment of the facility.

9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Deferral 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.

10.0 DISTRIBUTION

Mewbourne Oil Company

*4801 Business Park Blvd.
Hobbs, NM 88240*

New Mexico Energy, Minerals and Natural Resources Department

*Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210*

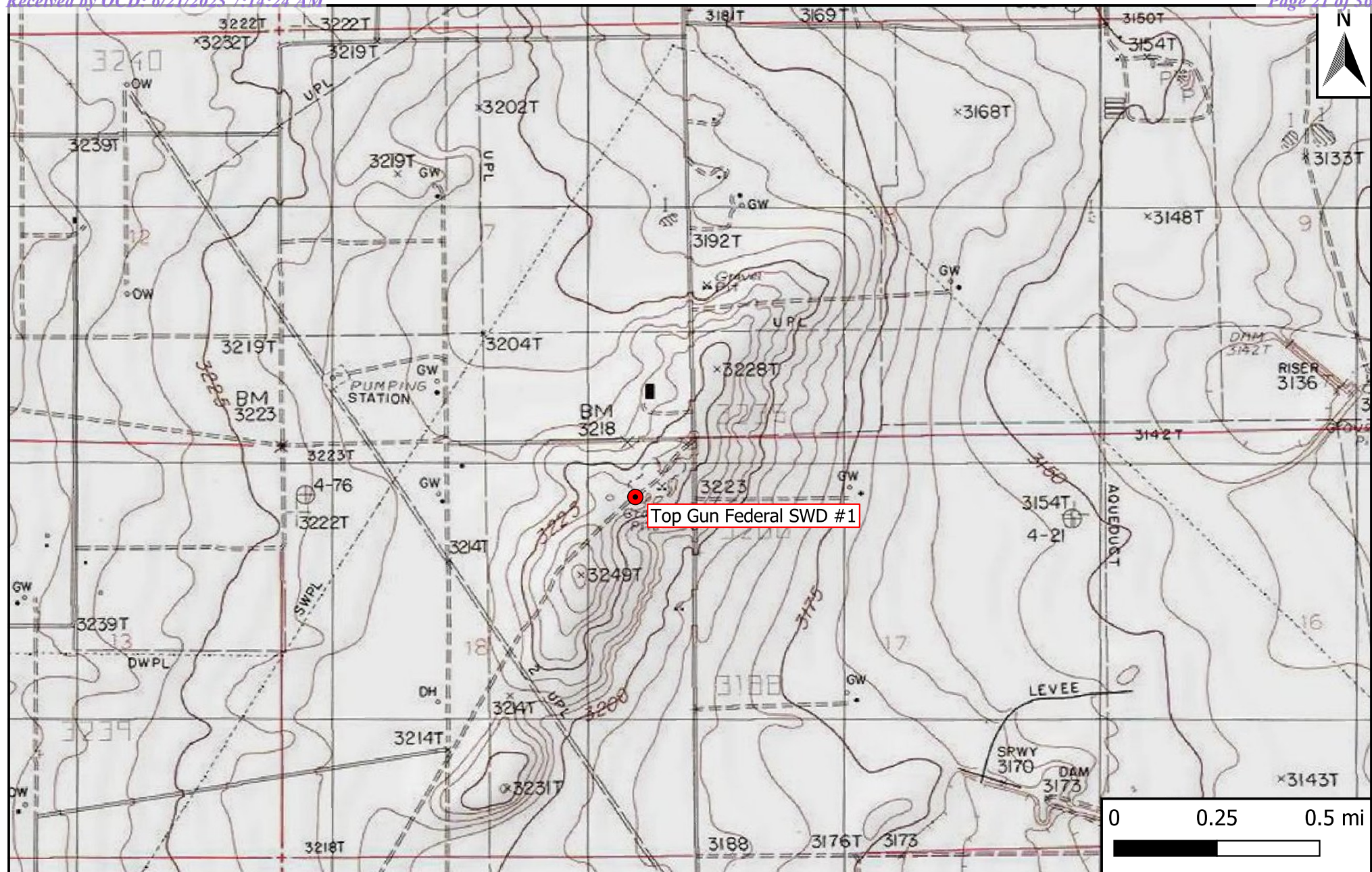
Hobbs Field Office

*New Mexico State Land 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
 Top Gun Federal SWD #1
 GPS: 32.310006, -104.223121
 Eddy County



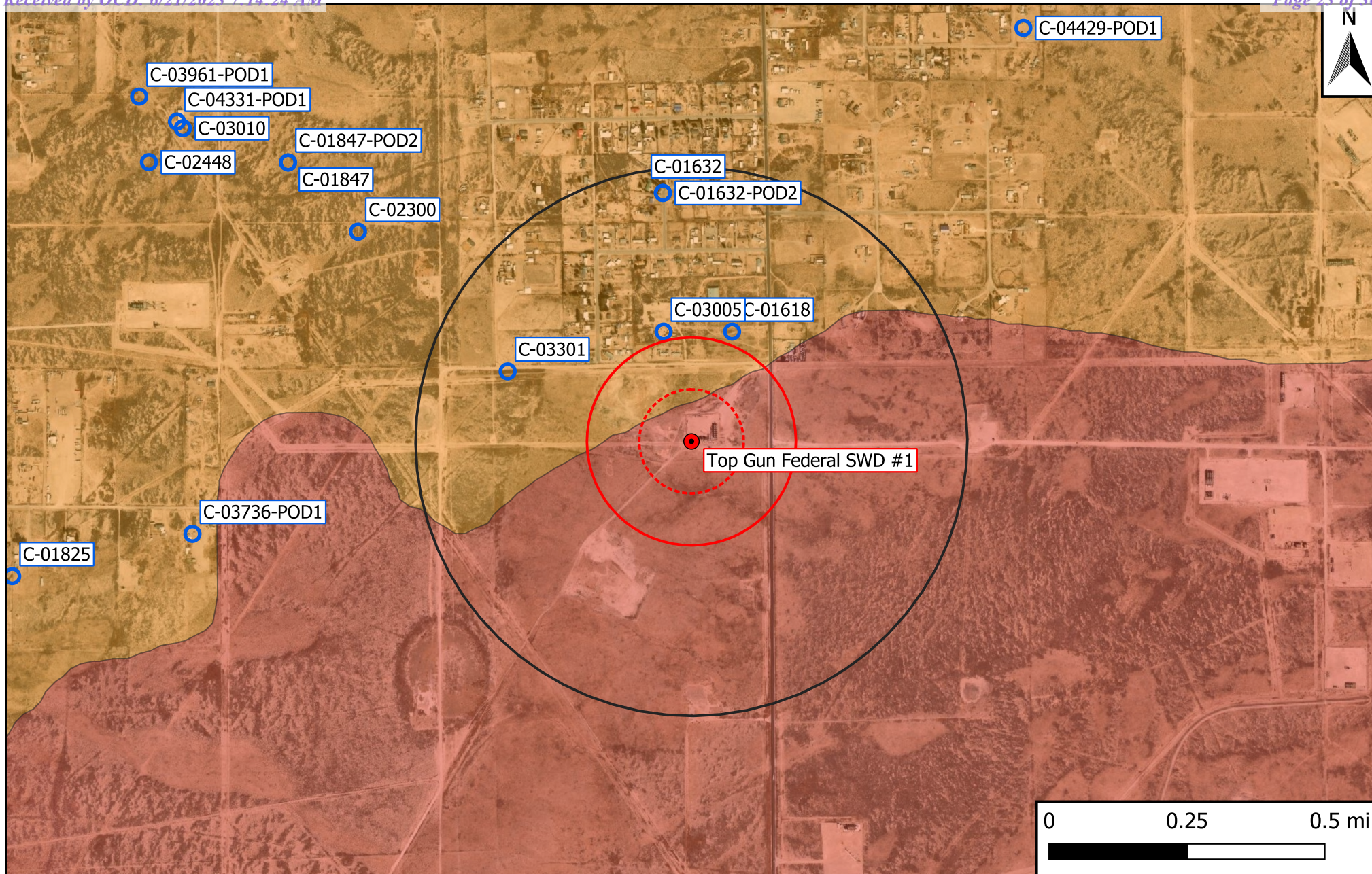
Drafted: bja

Checked: lc

Date: 6/13/23

Figure 2

Site Characterization Map



Legend

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

Figure 2
 Site Characterization Map
 Mewbourne Oil Company
 Top Gun Federal SWD #1
 GPS: 32.310006, -104.223121
 Eddy County



Drafted: bja

Checked: lc

Date: 6/13/23

Figures 3A & 3B

Site & Sample Location Maps



Legend

- Affected Area
- Deferral Characterization Sample Location
- Delineation Sample Location

Figure 3A

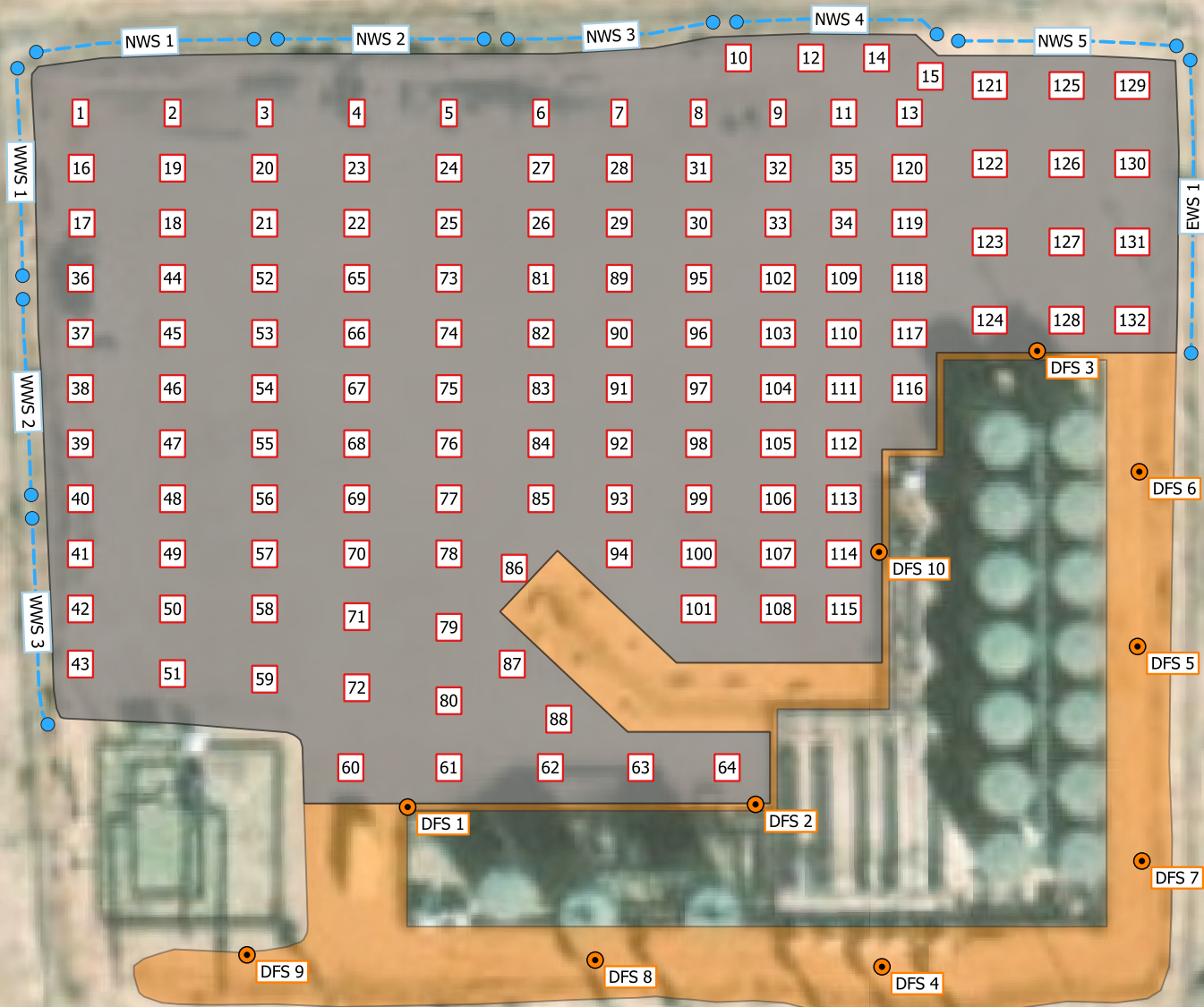
Site & Sample Location Map (Delineation)
 Mewbourne Oil Company
 Top Gun Federal SWD #1
 GPS: 32.310006, -104.223121
 Eddy County



Drafted: bja

Checked: lc

Date: 6/13/23



Legend

- Excavation Extent
- Area to be Deferred
- Composite Floor Sample
- Composite Wall Sample
- Deferral Characterization Sample Location

Figure 3B

Site & Sample Location Map (Excavation)
 Mewbourne Oil Company
 Top Gun Federal SWD #1
 GPS: 32.310006, -104.223121
 Eddy County



Drafted: bja

Checked: lc

Date: 6/13/23

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Top Gun Federal SWD #1 NMOCD Ref. #: nAPP2120037259, nAPP2120038621 & nAPP2212348289											
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)
Delineation & Deferral Characterization Samples											
TT-1 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	86,400
TT-1 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
TT-1 @ 4'	7/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
TT-2 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,760
TT-2 @ 2'	7/22/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	832
TT-2 @ 3'	7/22/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
TT-3 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,800
TT-3 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
TT-3 @ 3'	7/22/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
TT-4 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	159	159	125	284	13,600
TT-4 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
TT-4 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
TT-5 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,280
TT-5 @ 2'	7/22/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,060
TT-5 @ 4'	7/22/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,920
TT-5 @ 6'	7/22/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
TT-6 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16,100
TT-6 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
TT-6 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
TT-7 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	20,800
TT-7 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
TT-7 @ 4'	7/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
TT-8 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	13,200
TT-8 @ 2'	7/22/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,300
TT-8 @ 4'	7/22/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,340
TT-8 @ 6' Refusal	7/22/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
TT-9 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	14,000
TT-9 @ 2'	7/22/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
TT-9 @ 3'	7/22/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
TT-10 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	98.7	98.7	78.1	177	12,400
TT-10 @ 2'	7/22/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
TT-10 @ 3'	7/22/2022	3	In-Situ	<0.050	<0.300	<10.0	11.6	11.6	12.1	23.7	224
DFS 1 @ Surface	9/6/2022	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,070
DFS 1 @ 1'	9/6/2022	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,680
DFS 1 @ 2'	9/6/2022	2	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,570
DFS 1 @ 3'	9/6/2022	3	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,360
DFS 1 @ 4'	9/6/2022	4	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,420
DFS 1 @ 5'	9/6/2022	5	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,680
DFS 1 @ 6'	9/6/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
DFS 2 @ Surface	9/6/2022	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,560
DFS 2 @ 1'	9/6/2022	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,640
DFS 2 @ 2'	9/6/2022	2	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,360
DFS 2 @ 3'	9/6/2022	3	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,360
DFS 2 @ 4'	9/6/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
DFS 3 @ Surface	9/6/2022	0	Deferral	<0.050	<0.300	<10.0	132	132	20.4	152	20,000
DFS 3 @ 1'	9/6/2022	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,560

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Top Gun Federal SWD #1 NMOCD Ref. #: nAPP2120037259, nAPP2120038621 & nAPP2212348289											
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)
DFS 3 @ 2'	9/6/2022	2	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,600
DFS 3 @ 3'	9/6/2022	3	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,920
DFS 3 @ 4'	9/6/2022	4	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	992
DFS 3 @ 5'	9/6/2022	5	Deferral	<0.050	<0.300	<10.0	72.0	72.0	<10.0	72.0	880
DFS 3 @ 6'	9/6/2022	6	In-Situ	<0.050	<0.300	<10.0	15.0	15.0	<10.0	15.0	288
DFS 4 @ Surface	9/6/2022	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,160
DFS 4 @ 1'	9/6/2022	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,150
DFS 4 @ 2'	9/6/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
DFS 4 @ 3'	9/6/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
DFS 5 @ Surface	9/6/2022	0	Deferral	<0.050	<0.300	<10.0	33.0	33.0	<10.0	33.0	24,400
DFS 5 @ 1'	9/6/2022	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,220
DFS 5 @ 2'	9/6/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
DFS 6 @ Surface	2/23/2023	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	30,800
DFS 6 @ 1'	2/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
DFS 7 @ Surface	2/23/2023	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,130
DFS 7 @ 1'	2/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
DFS 7 @ 2'	2/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
DFS 8 @ Surface	2/23/2023	0	Deferral	<0.050	<0.300	<10.0	37.6	37.6	<10.0	37.6	832
DFS 8 @ 1'	2/23/2023	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,600
DFS 8 @ 2'	2/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
DFS 8 @ 3'	2/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
DFS 8 @ 4'	2/23/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
DFS 9 @ Surface	2/23/2023	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	14,600
DFS 9 @ 1'	2/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
DFS 10 @ Surface	2/23/2023	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	28,800
DFS 10 @ 1'	2/23/2023	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,360
DFS 10 @ 2'	2/23/2023	2	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	816
DFS 10 @ 3'	2/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
Excavation Samples											
NWS 1	8/18/2022	0.5-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
NWS 2	8/18/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
NWS 3	8/18/2022	0.5-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
NWS 4	8/18/2022	0.5-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
NWS 5	9/6/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EWS 1	9/6/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
WWS 1	8/18/2022	0.5-9.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
WWS 2	8/18/2022	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
WWS 3	8/18/2022	0.5-6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 1 @ 4'	8/12/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,120
FS 1 @ 6.5'	8/18/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 2 @ 6'	8/12/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
FS 2 @ 6.5'	8/18/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FS 3 @ 2'	8/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 4 @ 2'	8/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FS 5 @ 3'	8/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 6 @ 3'	8/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 7 @ 3'	8/12/2022	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Top Gun Federal SWD #1 NMOCD Ref. #: nAPP2120037259, nAPP2120038621 & nAPP2212348289											
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)
FS 7 @ 4'	8/18/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 8 @ 2'	8/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 9 @ 3'	8/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 10 @ 5'	8/12/2022	5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	720
FS 10 @ 6.5'	8/18/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 11 @ 3'	8/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FS 12 @ 6'	8/12/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
FS 12 @ 6.5'	8/18/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 13 @ 3'	8/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FS 14 @ 2'	8/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 15 @ 2'	8/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 16 @ 6'	8/15/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,960
FS 16 @ 10'	8/23/2022	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	10.5	10.5	592
FS 17 @ 6'	8/15/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,980
FS 17 @ 10'	8/23/2022	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FS 18 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FS 19 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 20 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 21 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 22 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 23 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 24 @ 3'	8/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 25 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 26 @ 3'	8/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FS 27 @ 3'	8/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 28 @ 3'	8/15/2022	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
FS 28 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 29 @ 3'	8/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FS 30 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 31 @ 3'	8/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FS 32 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 33 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 34 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 35 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
36 @ 6'	8/19/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
37 @ 6'	8/19/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
38 @ 6'	8/19/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
39 @ 6'	8/19/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 40 @ 6'	8/18/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FS 41 @ 6'	8/18/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
FS 41 @ 7'	8/25/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 42 @ 6'	8/18/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FS 43 @ 6'	8/18/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FS 44 @ 6'	8/18/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 45 @ 6'	8/18/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
FS 45 @ 7'	8/25/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 46 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Top Gun Federal SWD #1 NMOCD Ref. #: nAPP2120037259, nAPP2120038621 & nAPP2212348289											
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)
FS 47 @ 6'	8/23/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 48 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
49 @ 6'	8/19/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FS 50 @ 6'	8/23/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FS 51 @ 6'	8/23/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
52 @ 3'	8/19/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FS 53 @ 2'	8/23/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 54 @ 3'	8/23/2022	3	In-Situ	<0.050	<0.300	<10.0	11.0	11.0	<10.0	11.0	160
FS 55 @ 3'	8/23/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 56 @ 2'	8/23/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FS 57 @ 3'	8/23/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 58 @ 2'	8/23/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 59 @ 2'	8/23/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,260
FS 59 @ 3'	9/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 60 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FS 61 @ 9'	8/25/2022	9	In-Situ	<0.050	<0.300	<10.0	15.9	15.9	21.1	37.0	368
FS 62 @ 3'	8/25/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FS 63 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FS 64 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 65 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 66 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 67 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 68 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 69 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 70 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FS 71 @ 2'	8/25/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	624
FS 71 @ 3'	9/9/2022	3	In-Situ	-	-	-	-	-	-	-	240
FS 72 @ 3'	8/26/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 73 @ 3'	8/26/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 74 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 75 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 76 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 77 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 78 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 79 @ 3'	8/26/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 80 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FS 81 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 82 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 83 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FS 84 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 85 @ 2'	8/30/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
FS 85 @ 3'	9/9/2022	3	In-Situ	-	-	-	-	-	-	-	192
FS 86 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FS 87 @ 3'	8/30/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 88 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 89 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 90 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Top Gun Federal SWD #1 NMOCD Ref. #: nAPP2120037259, nAPP2120038621 & nAPP2212348289											
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)
FS 91 @ 3'	8/30/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 92 @ 2'	9/1/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FS 93 @ 2'	9/1/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 94 @ 4'	9/1/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 95 @ 2'	9/1/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 96 @ 2'	9/1/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 97 @ 4'	9/1/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 98 @ 3'	9/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 99 @ 3'	9/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 100 @ 4'	9/1/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 101 @ 4'	9/2/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 102 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 103 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 104 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 105 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 106 @ 4'	9/2/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 107 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 108 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 109 @ 2'	9/2/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	624
FS 109 @ 3'	9/9/2022	3	In-Situ	-	-	-	-	-	-	-	64.0
FS 110 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 111 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 112 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 113 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 114 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 115 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 116 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 117 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 118 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 119 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 120 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 121 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 122 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FS 123 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 124 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 125 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 126 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 127 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 128 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 129 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	13.8	13.8	<10.0	13.8	400
FS 130 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 131 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 132 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208

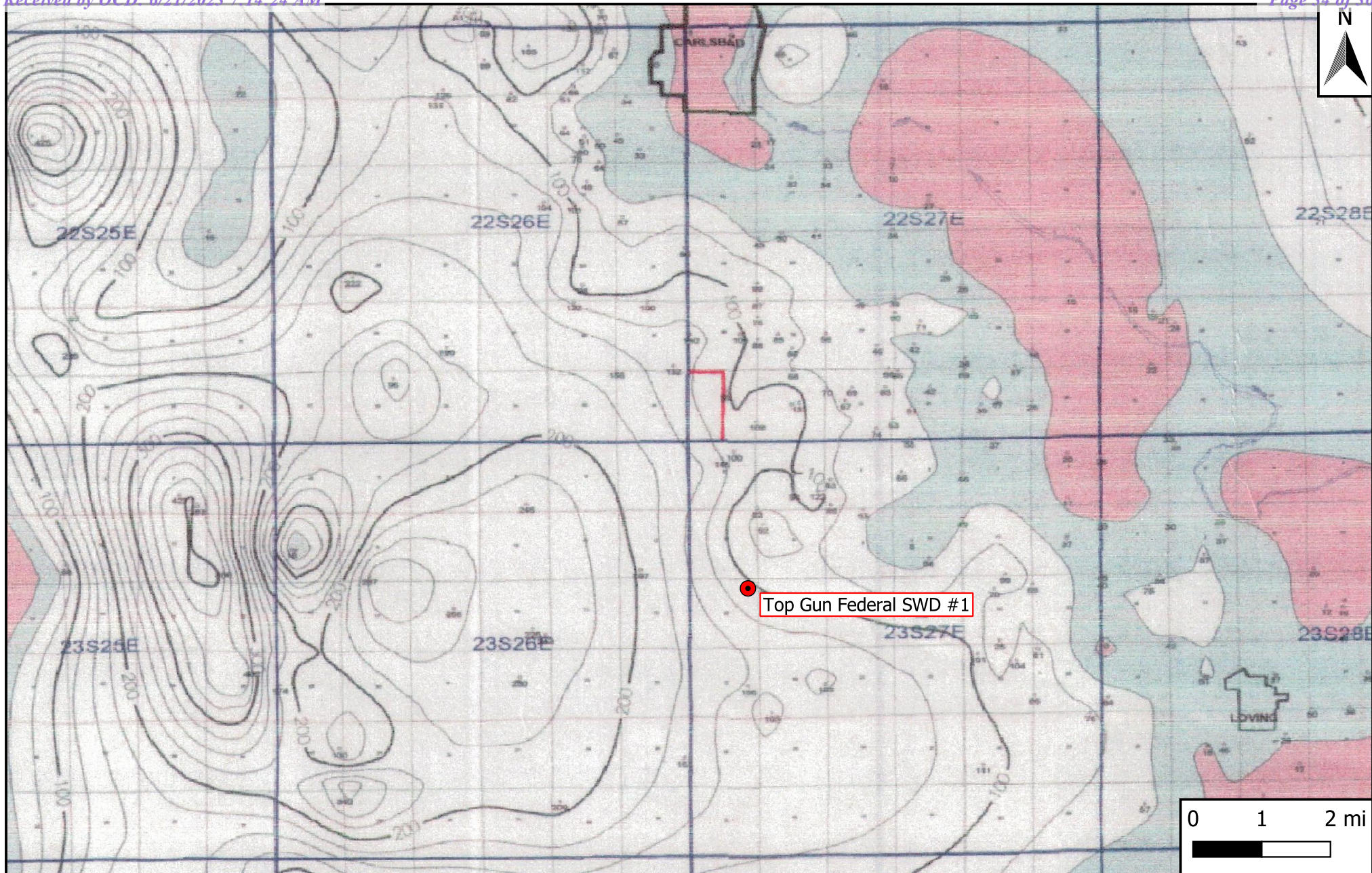
Dash (-): Sample not analyzed for that constituent.

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
 Top Gun Federal SWD #1
 GPS: 32.310006, -104.223121
 Eddy County



Drafted: bja

Checked: lc

Date: 6/13/23



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 Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03005	C		ED	3	4	4	07	23S	27E	573052	3575384*	330	140	100	40
C 01618	C		ED	4	4	4	07	23S	27E	573252	3575384*	341	250		
C 03301	C		ED	3	3	4	07	23S	27E	572597	3575268	574	375		
C 01632	C		ED	3	2	4	07	23S	27E	573050	3575789*	730	162	100	62
C 01632 CLW197648	O	C	ED	3	2	4	07	23S	27E	573050	3575789*	730	162	100	62
C 01632 POD2	C		ED	3	2	4	07	23S	27E	573050	3575789*	730	173	100	73

Average Depth to Water: **100 feet**

Minimum Depth: **100 feet**

Maximum Depth: **100 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 573133.37

Northing (Y): 3575063.38

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.

10/26/22 3:01 PM

Page 1 of 1

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 03005	3	4	4	07	23S	27E	573052	3575384*

Driller License: 1227 **Driller Company:** B & H DRILLING
Driller Name: HAMMOND, JOHN B.
Drill Start Date: 07/07/2004 **Drill Finish Date:** 07/31/2004 **Plug Date:**
Log File Date: 08/05/2004 **PCW Rev Date:** **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 2 GPM
Casing Size: 6.00 **Depth Well:** 140 feet **Depth Water:** 100 feet

Water Bearing Stratifications:

Top	Bottom	Description
0	2	Other/Unknown
20	60	Limestone/Dolomite/Chalk
60	100	Shale/Mudstone/Siltstone
100	120	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
100	130

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



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 01618	4	4	4	07	23S	27E	573252	3575384*



Driller License: 604 **Driller Company:** TAYLOR, W.H. SR.

Driller Name: TAYLOR, W.H. SR.

Drill Start Date: 10/08/1975 **Drill Finish Date:** 10/25/1975 **Plug Date:**

Log File Date: 10/31/1975 **PCW Rev Date:** **Source:**

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

Casing Size: **Depth Well:** 250 feet **Depth Water:**

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	03301	3	3	4	07	23S	27E	572597	3575268

Driller License:	1536	Driller Company:	VLOSICH, JOSEPH MICHAEL, JR.		
Driller Name:	VLOSICH, JOSEPH M., JR.				
Drill Start Date:	02/03/2007	Drill Finish Date:	06/28/2008	Plug Date:	
Log File Date:	07/07/2008	PCW Rev Date:		Source:	
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:		Depth Well:	375 feet	Depth Water:	


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POINT OF DIVERSION SUMMARY



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	01632	3	2	4	07	23S	27E	573050	3575789* 
<hr/>									
Driller License: 604		Driller Company: TAYLOR, W.H. SR.							
Driller Name: TAYLOR, W.H. SR.									
Drill Start Date: 11/22/1975		Drill Finish Date:		01/30/1976		Plug Date:			
Log File Date: 02/05/1976		PCW Rev Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 7.00		Depth Well:		162 feet		Depth Water:		100 feet	
<hr/>									
Water Bearing Stratifications:		Top		Bottom		Description			
		100		162		Shale/Mudstone/Siltstone			
<hr/>									

*UTM location was derived from PLSS - see Help


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POINT OF DIVERSION SUMMARY



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	01632 CLW197648	3	2	4	07	23S	27E	573050	3575789* 

Driller License:	604	Driller Company:	TAYLOR, W.H. SR.	
Driller Name:	TAYLOR, W.H. SR.			
Drill Start Date:	11/22/1975	Drill Finish Date:	01/30/1976	Plug Date:
Log File Date:	02/05/1976	PCW Rev Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:
Casing Size:	7.00	Depth Well:	162 feet	Depth Water: 100 feet

Water Bearing Stratifications:	Top	Bottom	Description
	100	162	Shale/Mudstone/Siltstone

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



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	01632 POD2	3	2	4	07	23S	27E	573050	3575789*

Driller License:	1064	Driller Company:	DELFORD W. MARTIN	
Driller Name:	MARTIN, DELFORD			
Drill Start Date:	05/15/1985	Drill Finish Date:	06/05/1985	Plug Date:
Log File Date:	06/12/1985	PCW Rev Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield: 30 GPM
Casing Size:	7.00	Depth Well:	173 feet	Depth Water: 100 feet

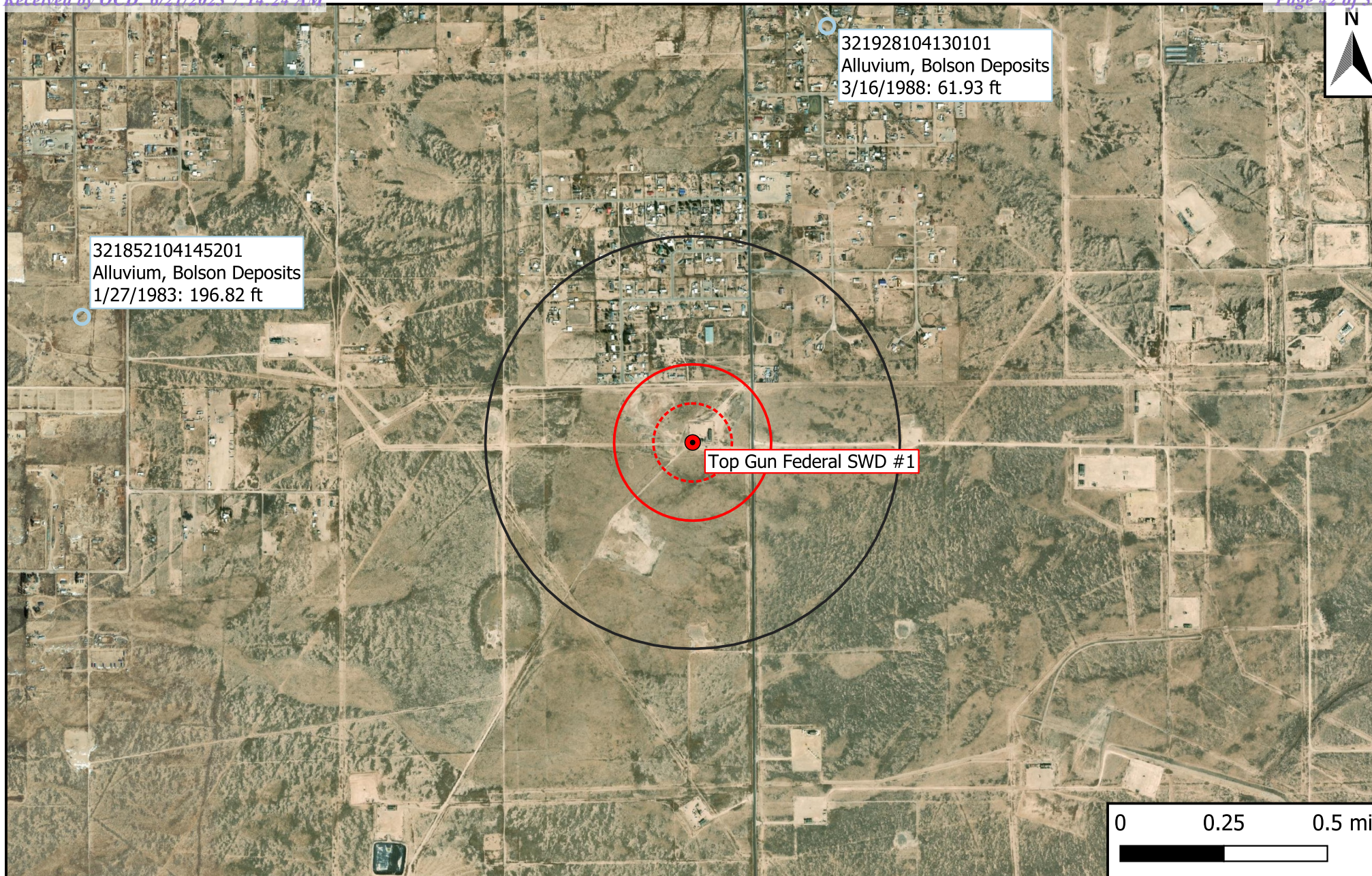
Water Bearing Stratifications:	Top	Bottom	Description
	105	112	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	110	165

*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.

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
Top Gun Federal SWD #1
GPS: 32.310006, -104.223121
Eddy County



Drafted: bja

Checked: lc

Date: 6/13/23



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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321852104145201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321852104145201 23S.26E.12.34312

Eddy County, New Mexico

Latitude 32°18'52", Longitude 104°14'52" NAD27

Land-surface elevation 3,245 feet above NAVD88

The depth of the well is 270 feet below land surface.

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

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) 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
1954-01-26			D	72019	188.58		1	Z			A
1955-01-14			D	72019	189.94		1	Z			A
1956-01-10			D	72019	190.45		1	Z			A
1957-01-10			D	72019	191.70		1	Z			A
1958-01-13			D	72019	193.03		1	Z			A
1960-01-12			D	72019	193.43		1	Z			A
1961-01-10			D	72019	194.35		1	Z			A

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
1962-01-19		D	72019	191.90			1	Z			A
1963-01-16		D	72019	196.03			1	Z			A
1964-01-16		D	72019	197.18			1	Z			A
1965-01-14		D	72019	198.75			1	Z			A
1966-01-11		D	72019	199.75			1	Z			A
1978-01-05		D	72019	199.70			1	Z			A
1983-01-27		D	72019	196.82			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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Data Category:

Groundwater

Geographic Area:

United States

GO



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Groundwater levels for the Nation



Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321928104130101

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321928104130101 23S.27E.08.11340

Eddy County, New Mexico

Latitude 32°19'28", Longitude 104°13'01" NAD27

Land-surface elevation 3,180 feet above NAVD88

The depth of the well is 140 feet below land surface.

This well is completed in the Other aquifers (N99990THER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) 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
1978-02-02		D	72019	64.67			1	Z			A
1988-03-16		D	72019	61.93			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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Page Last Modified: 2022-10-26 14:52:41 EDT

0.32 0.27 nadww01

Appendix B

Field Data & Soil Profile Log



Sample Log

Date: _____

Project: Top Gun Federal SWD #001

Project Number: 16075 Latitude: 32.310431 Longitude: -104.22279

Sample ID	PID/Odor	Chloride Conc. Sample ID	Chloride Conc. GPS
TT-1 Surface Sample	28284	TT-8 Surface Sample	9296
TT-1 @ 1 Ft	1348	TT-8 @ 1 Ft	3318
TT-1 @ 2 Ft	316	TT-8 @ 2 Ft	1260
TT-1 @ 3 Ft	1348	TT-8 @ 3 Ft	1444
TT-1 @ 4 Ft	ND	TT-8 @ 4 Ft	1176
TT-1 @ 6 Ft	280	TT-8 @ 6 Ft	696
TT-2 Surface Sample	1896	TT-9 Surface Sample	10052
TT-2 @ 1 Ft	1260	TT-9 @ 1 Ft	1036
TT-2 @ 2 Ft	756	TT-9 @ 2 Ft	536
TT-2 @ 3 Ft	356	TT-9 @ 3 Ft	396
TT-2 @ 4 Ft	212	TT-10 Surface Sample	15412
TT-3 Surface Sample	14052	TT-10 @ 1 Ft	488
TT-3 @ 1 Ft	212	TT-10 @ 2 Ft	356
TT-3 @ 2 Ft	1176	TT-10 @ 3 Ft	316
TT-3 @ 3 Ft	280		
TT-4 Surface Sample	14052		
TT-4 @ 1 Ft	588		
TT-4 @ 2 Ft	316		
TT-5 Surface Sample	5864		
TT-5 @ 1 Ft	5060		
TT-5 @ 2 Ft	1096		
TT-5 @ 3 Ft	2188		
TT-5 @ 4 Ft	2360		
TT-5 @ 6 Ft	252		
TT-5 @ 8 Ft	356		
TT-6 Surface Sample	15412		
TT-6 @ 1 Ft	700		
TT-6 @ 2 Ft	320		
TT-6 @ 3 Ft	284		
TT-6 @ 4 Ft	536		
TT-7 Surface Sample	15412		
TT-7 @ 1 Ft	964		
TT-7 @ 2 Ft	252		
TT-7 @ 3 Ft	964		
TT-7 @ 4 Ft	400		

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Top Gun Federal SWD #1

Project Number: 16075 Latitude: 32.310006 Longitude: -104.223121

Sample ID	PID/Odor	Chloride Conc.	GPS
FS 1. @ 2 Ft	-	1444	
FS 2. @ 2 Ft	-	1348	
FS 3. @ 2 Ft	-	128	
FS 4. @ 2 Ft	-	356	
FS 1. @ 3 Ft	-	1020	
FS 2. @ 3 Ft	-	1260	
FS 5. @ 2 Ft	-	756	
FS 6. @ 2 Ft	-	1260	
FS 7. @ 2 Ft	-	1772	
FS 1. @ 4 Ft	-	880	
FS 2. @ 4 Ft	-	1772	
FS 5. @ 3 Ft	-	128	
FS 6. @ 3 Ft	-	212	
FS 7. @ 3 Ft	-	588	
FS 8. @ 2 Ft	-	244	
FS 9. @ 2 Ft	-	880	
FS 10. @ 2 Ft	-	2036	
FS 11. @ 2 Ft	-	816	
FS 12. @ 2 Ft	-	1772	
FS 13. @ 2 Ft	-	880	
FS 9. @ 3 Ft	-	180	
FS 10. @ 3 Ft	-	1772	
FS 11. @ 3 Ft	-	588	
FS 12. @ 3 Ft	-	1444	
FS 13. @ 3 Ft	-	488	
FS 2. @ 5 Ft	-	1544	
FS 14. @ 2 Ft	-	244	
FS 15. @ 2 Ft	-	128	
FS 10. @ 4 Ft	-	816	
BS 12. @ 4 Ft	-	1020	
FS 10. @ 5 Ft	-	588	
FS 12. @ 5 Ft	-	880	
FS 12. @ 6 Ft	-	640	
FS 16. @ 2 Ft	-	880	
FS 17. @ 2 Ft	-	1020	

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



Sample Log

Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FS 16. @ 3 Ft	-	1770	
FS 17. @ 3 Ft	-	880	
FS 16. @ 4 Ft	-	2536	
FS 17. @ 4 Ft	-	1324	
FS 18. @ 2 Ft	-	440	
FS 19. @ 2 Ft	-	128	
FS 20. @ 2 Ft	-	200	
FS 21. @ 2 Ft	-	ND	
FS 22. @ 2 Ft	-	260	
FS 23. @ 2 Ft	-	ND	
FS 24. @ 2 Ft	-	908	
FS 25. @ 2 Ft	-	260	
FS 26. @ 2 Ft	-	772	
FS 27. @ 2 Ft	-	648	
FS 28. @ 2 Ft	-	880	
FS 29. @ 2 Ft	-	1772	
FS 16. @ 6 Ft	-	1896	
FS 17. @ 6 Ft	-	1260	
FS 24. @ 3 Ft	-	244	
FS 26. @ 3 Ft	-	488	
FS 27. @ 3 Ft	-	400	
FS 28. @ 3 Ft	-	588	
FS 29. @ 3 Ft	-	588	
FS 30. @ 2 Ft	-	212	
FS 31. @ 2 Ft	-	756	
FS 31. @ 3 Ft	-	536	
FS 32 @ 2 Ft	-	ND	
FS 33 @ 2 Ft	-	186	
FS 34 @ 2 Ft	-	ND	
FS 35 @ 2 Ft	-	356	
FS 36 @ 2 Ft	-	1632	
FS 37 @ 2 Ft	-	2630	
FS 36 @ 3 Ft	-	1348	
FS 37 @ 3 Ft	-	1652	
FS 36 @ 4 Ft	-	2,552	
FS 37 @ 4 Ft	-	2,552	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	Sample ID	Chloride Conc.
FS 36 @ 6 Ft	-	11772	FS 1 @ 6 1/2 Ft	
FS 37 @ 6 Ft	-	1260	FS 2 @ 6 1/2 Ft	536
FS 38 @ 2 Ft	-	503	FS 7 @ 4 Ft	356
FS 39 @ 2 Ft	-	11772	FS 10 @ 6 1/2 Ft	212
FS 40 @ 2 Ft	-	11772	FS 12 @ 6 1/2 Ft	400
FS 41 @ 2 Ft	-	1449	FS 46 @ 3 Ft	1096
FS 42 @ 2 Ft	-	1652	FS 47 @ 3 Ft	1348
FS 43 @ 2 Ft	-	1348	FS 48 @ 2 Ft	1652
FS 40 @ 3 Ft	-	1176	FS 49 @ 2 Ft	2552
FS 41 @ 3 Ft	-	1020	FS 50 @ 2 Ft	2552
FS 42 @ 3 Ft	-	1176	FS 51 @ 2 Ft	1172
FS 43 @ 3 Ft	-	1260	FS 52 @ 2 Ft	1096
FS 40 @ 4 Ft	-	1020	FS 52 @ 3 Ft	536
FS 41 @ 4 Ft	-	988	FS 51 @ 3 Ft	1096
FS 42 @ 4 Ft	-	880	FS 48 @ 3 Ft	696
FS 43 @ 4 Ft	-	880	FS 49 @ 4 Ft	696
FS 38 @ 4 Ft	-	1172	FS 50 @ 4 Ft	1260
FS 39 @ 4 Ft	-	1176	FS 51 @ 4 Ft	1652
FS 38 @ 6 Ft	-	640	FS 49 @ 6 Ft	356
FS 39 @ 6 Ft	-	756	FS 50 @ 6 Ft	316
FS 40 @ 6 Ft	-	400	FS 51 @ 6 Ft	488
FS 41 @ 6 Ft	-	488	FS 46 @ 4 Ft	444
FS 42 @ 6 Ft	-	536	FS 47 @ 4 Ft	
FS 43 @ 6 Ft	-	444	FS 48 @ 6 Ft	180
WWS 1	-	400	FS 52 @ 2 Ft	180
WWS 2	-	260	FS 53 @ 2 Ft	128
WWS 3	-	488	FS 54 @ 2 Ft	1172
FS 44 @ 2 Ft	-	588	FS 55 @ 2 Ft	1020
NWS 1	-		FS 56 @ 2 Ft	588
NWS 2	-		FS 57 @ 2 Ft	1260
NWS 3	-		FS 58 @ 2 Ft	756
NWS 4	-		FS 59 @ 2 Ft	488
FS 45 @ 2 Ft	-	588	FS 16 @ 7 Ft	1544
FS 46 @ 2 Ft	-	696	FS 17 @ 7 Ft	2552
FS 47 @ 2 Ft	-	1020	FS 16 @ 8 Ft	1260
			FS 17 @ 6 Ft	2552

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



Sample Log

Date: _____
Project: _____
Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FS 16 @ 9 Ft	-	880	
FS 17 @ 9 Ft	-	880	
FS 16 @ 10 Ft	-	488	
FS 17 @ 10 Ft	-	280	
FS 54 @ 3 Ft	-	180	
FS 55 @ 3 Ft	-	400	
FS 28 @ 4 Ft	-	180	
FS 57 @ 3 Ft	-	400	
FS 60 @ 2 Ft	-	1348	
FS 61 @ 2 Ft	-	948	
FS 62 @ 2 Ft	-	816	
FS 63 @ 2 Ft	-	356	
FS 60 @ 3 Ft	-	1260	
FS 60 @ 4 Ft	-	588	
FS 61 @ 3 Ft	-	1020	
FS 61 @ 4 Ft	-	1260	
FS 62 @ 3 Ft	-	536	
FS 61 @ 5 Ft	-	1176	
FS 61 @ 6 Ft	-	948	
FS 61 @ 7 Ft	-	816	
FS 61 @ 8 Ft	-	1176	
FS 61 @ 9 Ft	-	588	
FS 41 @ 7 Ft	-	180	
FS 64 @ 2 Ft	-	180	
FS 65 @ 2 Ft	-	N/D	
FS 66 @ 2 Ft	-	152	
FS 67 @ 2 Ft	-	N/D	
FS 68 @ 2 Ft	-	152	
FS 69 @ 2 Ft	-	316	
FS 45 @ 7 Ft	-	280	
FS 70 @ 2 Ft	-	356	
FS 71 @ 2 Ft	-	536	
FS 72 @ 2 Ft	-	1176	
FS 73 @ 2 Ft	-	588	
FS 74 @ 2 Ft	-	152	
FS 75 @ 2 Ft	-	280	

Sample Point = SP #1 @ ## etc Test Trench = TT #1 @ ## Resamples = SP #1 @ 5b or SW #1b
Floor = FL #1 etc Refusal = SP #1 @ 4'-R Stockpile = Stockpile #1
Sidewall = SW #1 etc Soil Intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center of Comp Areas

90A Foot
Lower 41 @ 6 Ft
45 @ 6 Ft



160
250
250

Sample Log

Date: _____

Project: _____
Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FS 76 @ 2 Ft	-	180	
FS 77 @ 2 Ft	-	356	
FS 78 @ 2 Ft	-	356	
FS 79 @ 2 Ft	-	1176	
FS 80 @ 2 Ft	-	488	
FS 72 @ 3 Ft	-	316	
FS 73 @ 3 Ft	-	280	
FS 81 @ 2 Ft	-	536	
FS 82 @ 2 Ft	-	316	
FS 79 @ 3 Ft	-	588	
FS 83 @ 4 Ft	-	212	
FS 84 @ 2 Ft	-		
FS 85 @ 2 Ft	-	536	
FS 86 @ 2 Ft	-	536	
FS 87 @ 2 Ft	-	1544	
FS 88 @ 2 Ft	-	444	
FS 89 @ 2 Ft	-	280	
FS 90 @ 2 Ft	-	244	
FS 91 @ 2 Ft	-	756	
FS 92 @ 2 Ft	-	536	
FS 93 @ 2 Ft	-	316	
FS 74 @ 2 Ft	-	756	
FS 91 @ 3 Ft	-	488	
FS 87 @ 3 Ft	-	356	
FS 94 @ 3 Ft	-	1348	
FS 95 @ 2 Ft	-	244	
FS 96 @ 2 Ft	-	356	
FS 97 @ 2 Ft	-	696	
FS 98 @ 2 Ft	-	588	
FS 99 @ 2 Ft	-	588	
FS 100 @ 2 Ft	-	756	
FS 101 @ 2 Ft	-	1920	
FS 59 @ 3 Ft	-	244	
FS 108 @ 2 Ft	-	880	
FS 107 @ 2 Ft	-	880	
FS 106 @ 2 Ft	-	598	

Sample Point = SP #1 @ ## etc Test Trench = TT #1 @ ## Resamples = SP #1 @ 5b or SW #1b
Floor = FL #1 etc Refusal = SP #1 @ 4'-R Stockpile = Stockpile #1
Sidewall = SW #1 etc Soil Intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: _____
Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FS 94 @ 4 Ft	-	296	
FS 97 @ 3 Ft	-	1020	
FS 98 @ 3 Ft	-	296	
FS 99 @ 3 Ft	-	200	
FS 100 @ 3 Ft	-	664	
FS 101 @ 3 Ft	-	920	
FS 108 @ 3 Ft	-	556	
FS 107 @ 3 Ft	-	296	
FS 106 @ 3 Ft	-	1428	
FS 99 @ 4 Ft	-	228	
FS 100 @ 4 Ft	-	416	
FS 101 @ 4 Ft	-	416	
FS 113 @ 2 Ft	-	172	
FS 114 @ 2 Ft	-	144	
FS 106 @ 4 Ft	-	172	
FS 115 @ 2 Ft	-	588	
FS 104 @ 2 Ft	-	588	
FS 103 @ 2 Ft	-	260	
FS 102 @ 2 Ft	-	756	
FS 111 @ 2 Ft	-	920	
FS 112 @ 2 Ft	-	200	
FS 110 @ 2 Ft	-	724	
FS 116 @ 2 Ft	-	144	
FS 117 @ 2 Ft	-	172	
FS 118 @ 2 Ft	-	460	
FS 119 @ 2 Ft	-	416	
FS 120 @ 2 Ft	-	172	
FS 121 @ 2 Ft	-	260	
FS 122 @ 2 Ft	-	508	
FS 123 @ 2 Ft	-	296	
FS 124 @ 2 Ft	-	556	
FS 125 @ 2 Ft	-	556	
FS 126 @ 2 Ft	-		
FS 127 @ 2 Ft	-	2532	
FS 128 @ 2 Ft	-	1328	
FS 129 @ 2 Ft	-	920	

Sample Point = SP #1 @ ## etc Test Trench = TT #1 @ ## Resamples= SP #1 @ 5b or SW #1b
Floor = FL #1 etc Refusal = SP #1 @ 4'-R Stockpile = Stockpile #1
Sidewall = SW #1 etc Soil Intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center of Comp Areas

111 @ 3 Ft



Sample Log

Date: _____

Project: _____
Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FS FS 102 @ 3 Ft	-	296	
FS 111 @ 3 Ft	-	144	
FS 110 @ 3 Ft	-	144	
FS 127 @ 3 Ft	-	372	
FS 128 @ 3 Ft	-	128	
FS 129 @ 3 Ft	-	296	
FS 85 @ 3 Ft	-	280	
FS 71 @ 3 Ft	-	372	
FS 130 @ 2 Ft	-	508	
FS 131 @ 2 Ft	-	556	
FS 132 @ 2 Ft	-	460	
D SP 1 @ Surface	-	1428	
D SP 1 @ 1 Ft	-	1760	
D SP 1 @ 2 Ft	-	1528	
D SP 1 @ 3 Ft	-	1328	
D SP 1 @ 4 Ft	-	1152	
D SP 1 @ 5 Ft	-	1428	DFS 1 @ 6 Ft 200
D SP 2 @ Surface	-	1880	
D SP 2 @ 1 Ft	-	2533	
D SP 2 @ 2 Ft	-	1528	
D SP 2 @ 3 Ft	-	2533	
D SP 2 @ 4 Ft	-	460	
D SP 3 @ Surface	-	2532	
DSP 3 @ 1 Ft	-	2532	
DSP 3 @ 2 Ft	-	2532	
DSP 3 @ 3 Ft	-	2532	
DSP 3 @ 4 Ft	-	798	
DSP 3 @ 5 Ft	-	920	
DSP 3 @ 6 Ft	-	416	
DFS 4 @ Surface	-	2523	
DFS 4 @ 1 Ft	-	1328	
DFS 4 @ 2 Ft	-	664	
DFS 4 @ 3 Ft	-	260	
DFS 5 @ Surface	-	2532	
DFS 5 @ 1 Ft	-	1328	
DPS 5 @ 2 Ft	-	460	

Sample Point = SP #1 @ ## etc Test Trench = TT #1 @ ## Resamples = SP #1 @ 5b or SW #1b
Floor = FL #1 etc Refusal = SP #1 @ 4'-R Stockpile = Stockpile #1
Sidewall = SW #1 etc Soil Intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center of Comp Areas



Soil Profile

Date: _____

Project: Top Gun Federal SWD #1

Project Number: 16075 Latitude: 32.310006 Longitude: -104.223121


Depth (ft. bgs)	Description
1	Caliche
2	Caliche
3	Rock
4	Rock - sand
5	Sand
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: West	
Photo Description: View of the affected area.	

Photo Number: 2	
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	 <p>Aug 12, 2022 at 9:44:24 AM +32.310281,-104.222714</p>
Photo Direction: North	
Photo Description: View of the affected area.	

Photo Number: 4	 <p>Aug 12, 2022 at 9:44:26 AM +32.310281,-104.222714</p>
Photo Direction: Northeast	
Photo Description: View of the affected area.	

Photographic Log


Photo Number: 5	 <p>Aug 31, 2022 at 10:37:29 AM +32.310442,-104.222718</p>
Photo Direction: West	
Photo Description: View of the excavated area.	

Photo Number: 6	 <p>Aug 31, 2022 at 10:37:31 AM +32.310442,-104.222718</p>
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 7	
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photo Number: 8	
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 9	
Photo Direction: East	
Photo Description: View of the remediated area after backfilling and regrading.	

Photo Number: 10	
Photo Direction: East-Southeast	
Photo Description: View of the remediated area after backfilling and regrading.	

Photographic Log



Photo Number: 11	
Photo Direction: East	
Photo Description: View of the remediated area after backfilling and regrading.	

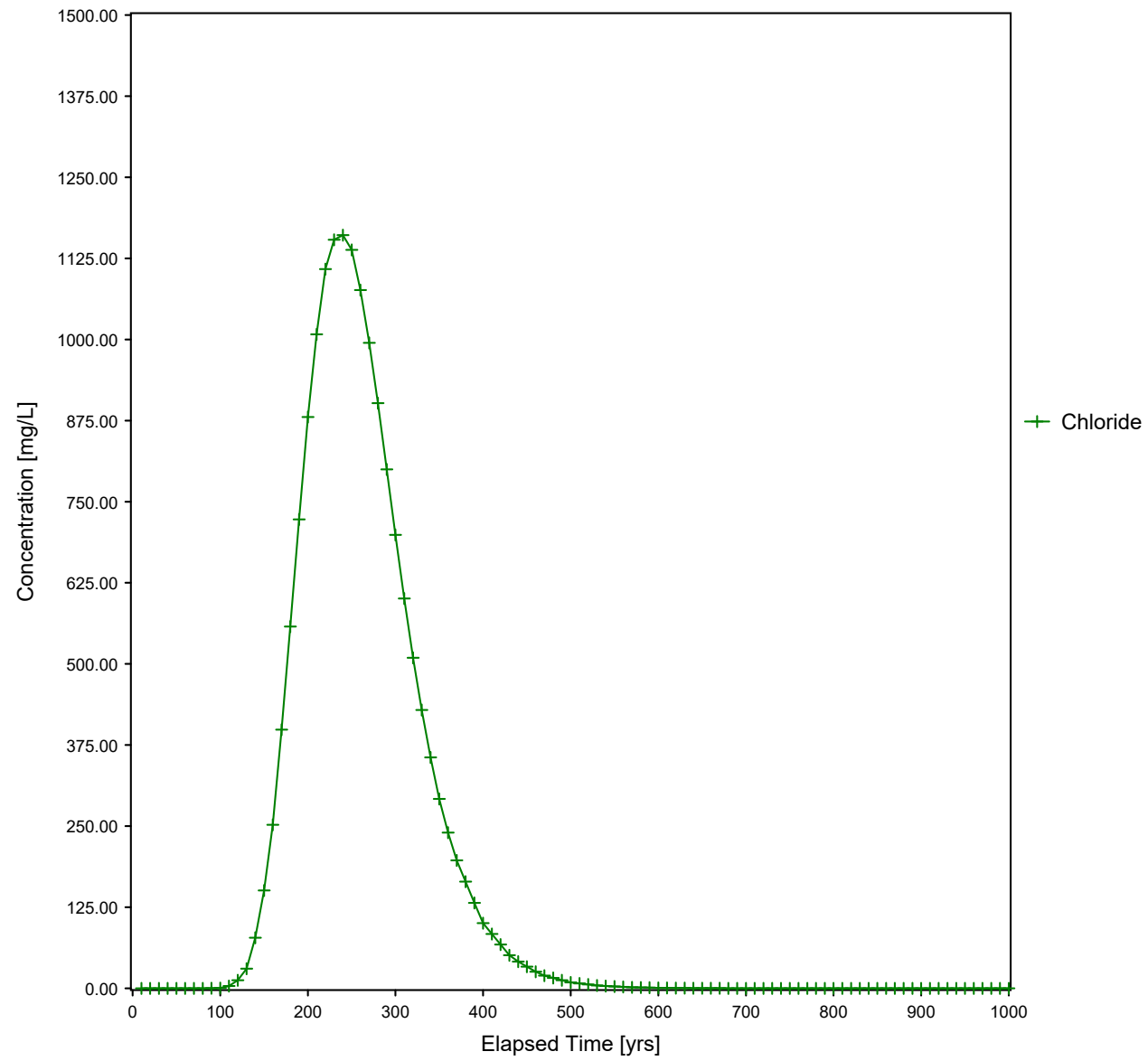
Photo Number: 12	
Photo Direction: South-Southeast	
Photo Description: View of the remediated area after backfilling and regrading.	

Appendix D

Multimedia Exposure Assessment Model (MULTIMED)

Chloride Concentration At The Receptor Well

Mewbourne Oil Company
Top Gun Federal SWD #1



LAYER NO.	LAYER THICKNESS	MATERIAL PROPERTY
1	0.47	1
2	2.03	1
3	26.15	1

DATA FOR MATERIAL 1

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	3.60	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.250	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	28.6	0.000	0.000	0.000

DATA FOR MATERIAL 1

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.116	-999.	-999.	-999.
Brook and Corey exponent, EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-02	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.09	-999.	-999.	-999.

DATA FOR MATERIAL 2

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.140	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.120	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	28.6	0.000	0.000	0.000

DATA FOR MATERIAL 2

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.116	-999.	-999.	-999.

Brook and Corey exponent,EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-02	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.09	-999.	-999.	-999.

DATA FOR MATERIAL 3

VADOSE ZONE MATERIAL VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Saturated hydraulic conductivity	cm/hr	CONSTANT	0.848E-03	-999.	-999.	-999.
Unsaturated zone porosity	--	CONSTANT	0.150	-999.	-999.	-999.
Air entry pressure head	m	CONSTANT	0.700	-999.	-999.	-999.
Depth of the unsaturated zone	m	CONSTANT	28.6	0.000	0.000	0.000

DATA FOR MATERIAL 3

VADOSE ZONE FUNCTION VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Residual water content	--	CONSTANT	0.116	-999.	-999.	-999.
Brook and Corey exponent,EN	--	CONSTANT	-999.	-999.	-999.	-999.
ALFA coefficient	1/cm	CONSTANT	0.500E-03	-999.	-999.	-999.
Van Genuchten exponent, ENN	--	CONSTANT	1.09	-999.	-999.	-999.

1

UNSATURATED ZONE TRANSPORT MODEL PARAMETERS

NLAY	- Number of different layers used	1
NTSTPS	- Number of time values concentration calc	40
DUMMY	- Not presently used	1
ISOL	- Type of scheme used in unsaturated zone	2
N	- Stehfest terms or number of increments	18
NTEL	- Points in Lagrangian interpolation	3
NGPTS	- Number of Gauss points	104
NIT	- Convolution integral segments	2
IBOUND	- Type of boundary condition	3
ITSGEN	- Time values generated or input	1
TMAX	- Max simulation time	-- 0.0
WTFUN	- Weighting factor	-- 1.2

OPTIONS CHOSEN

Convolution integral approach
Exponentially decaying continuous source
Computer generated times for computing concentrations

DATA FOR LAYER 1

VADOSE TRANSPORT VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Thickness of layer	m	CONSTANT	28.6	-999.	-999.	-999.
Longitudinal dispersivity of layer	m	DERIVED	-999.	-999.	-999.	-999.
Percent organic matter	--	CONSTANT	0.000	-999.	-999.	-999.
Bulk density of soil for layer	g/cc	CONSTANT	1.99	-999.	-999.	-999.
Biological decay coefficient	1/yr	CONSTANT	0.000	-999.	-999.	-999.

CHEMICAL SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Solid phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Dissolved phase decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Overall chemical decay coefficient	1/yr	DERIVED	-999.	-999.	-999.	-999.
Acid catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Neutral hydrolysis rate constant	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Base catalyzed hydrolysis rate	1/M-yr	CONSTANT	0.000	-999.	-999.	-999.
Reference temperature	C	CONSTANT	25.0	-999.	-999.	-999.
Normalized distribution coefficient	ml/g	CONSTANT	0.000	-999.	-999.	-999.
Distribution coefficient	--	DERIVED	-999.	-999.	-999.	-999.
Biodegradation coefficient (sat. zone)	1/yr	CONSTANT	0.000	-999.	-999.	-999.
Air diffusion coefficient	cm ² /s	CONSTANT	-999.	-999.	-999.	-999.
Reference temperature for air diffusion	C	CONSTANT	-999.	-999.	-999.	-999.
Molecular weight	g/M	CONSTANT	-999.	-999.	-999.	-999.
Mole fraction of solute	--	CONSTANT	-999.	-999.	-999.	-999.
Vapor pressure of solute	mm Hg	CONSTANT	-999.	-999.	-999.	-999.
Henry`s law constant	atm-m ³ /M	CONSTANT	-999.	-999.	-999.	-999.
Overall 1st order decay sat. zone	1/yr	DERIVED	0.000	0.000	0.000	1.00
Not currently used		CONSTANT	0.000	0.000	0.000	0.000
Not currently used		CONSTANT	0.000	0.000	0.000	0.000

SOURCE SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Infiltration rate	m/yr	CONSTANT	0.305E-01	-999.	-999.	-999.
Area of waste disposal unit	m ²	CONSTANT	0.117E+04	-999.	-999.	-999.
Duration of pulse	yr	DERIVED	0.100E-08	-999.	-999.	-999.
Spread of contaminant source	m	DERIVED	-999.	-999.	-999.	-999.

Recharge rate	m/yr	CONSTANT	0.000	-999.	-999.	-999.
Source decay constant	1/yr	CONSTANT	0.250E-01	0.000	0.000	0.000
Initial concentration at landfill	mg/l	CONSTANT	0.717E+04	-999.	-999.	-999.
Length scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Width scale of facility	m	DERIVED	-999.	-999.	-999.	-999.
Near field dilution		DERIVED	1.00	0.000	0.000	1.00

AQUIFER SPECIFIC VARIABLES

VARIABLE NAME	UNITS	DISTRIBUTION	PARAMETERS		LIMITS	
			MEAN	STD DEV	MIN	MAX
Particle diameter	cm	CONSTANT	-999.	-999.	-999.	-999.
Aquifer porosity	--	CONSTANT	0.300	-999.	-999.	-999.
Bulk density	g/cc	CONSTANT	1.86	-999.	-999.	-999.
Aquifer thickness	m	CONSTANT	4.57	-999.	-999.	-999.
Source thickness (mixing zone depth)	m	DERIVED	-999.	-999.	-999.	-999.
Conductivity (hydraulic)	m/yr	CONSTANT	315.	-999.	-999.	-999.
Gradient (hydraulic)		CONSTANT	0.300E-02	-999.	-999.	-999.
Groundwater seepage velocity	m/yr	DERIVED	-999.	-999.	-999.	-999.
Retardation coefficient	--	DERIVED	-999.	-999.	-999.	-999.
Longitudinal dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Transverse dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Vertical dispersivity	m	FUNCTION OF X	-999.	-999.	-999.	-999.
Temperature of aquifer	C	CONSTANT	20.0	-999.	-999.	-999.
pH	--	CONSTANT	7.00	-999.	-999.	-999.
Organic carbon content (fraction)		CONSTANT	0.000	-999.	-999.	-999.
Well distance from site	m	CONSTANT	1.00	-999.	-999.	-999.
Angle off center	degree	CONSTANT	0.000	-999.	-999.	-999.
Well vertical distance	m	CONSTANT	0.000	-999.	-999.	-999.

TIME CONCENTRATION

0.100E+02	0.00000E+00
0.200E+02	0.00000E+00
0.300E+02	0.00000E+00
0.400E+02	0.00000E+00
0.500E+02	0.00000E+00
0.600E+02	0.00000E+00
0.700E+02	0.00000E+00
0.800E+02	0.00000E+00
0.900E+02	0.11154E+00
0.100E+03	0.48987E+00
0.110E+03	0.36288E+01
0.120E+03	0.12436E+02
0.130E+03	0.30258E+02
0.140E+03	0.78090E+02
0.150E+03	0.15080E+03
0.160E+03	0.25211E+03
0.170E+03	0.39863E+03
0.180E+03	0.55749E+03
0.190E+03	0.72271E+03

0.200E+03 0.88048E+03
0.210E+03 0.10080E+04
0.220E+03 0.11084E+04
0.230E+03 0.11537E+04
0.240E+03 0.11608E+04
0.250E+03 0.11381E+04
0.260E+03 0.10762E+04
0.270E+03 0.99472E+03
0.280E+03 0.90182E+03
0.290E+03 0.79988E+03
0.300E+03 0.69887E+03
0.310E+03 0.60085E+03
0.320E+03 0.50941E+03
0.330E+03 0.42892E+03
0.340E+03 0.35586E+03
0.350E+03 0.29198E+03
0.360E+03 0.24007E+03
0.370E+03 0.19713E+03
0.380E+03 0.16438E+03
0.390E+03 0.13164E+03
0.400E+03 0.10054E+03
0.410E+03 0.83874E+02
0.420E+03 0.67460E+02
0.430E+03 0.51047E+02
0.440E+03 0.41117E+02
0.450E+03 0.33374E+02
0.460E+03 0.25632E+02
0.470E+03 0.19619E+02
0.480E+03 0.16097E+02
0.490E+03 0.12575E+02
0.500E+03 0.92274E+01
0.510E+03 0.76237E+01
0.520E+03 0.60551E+01
0.530E+03 0.44864E+01
0.540E+03 0.35619E+01
0.550E+03 0.28716E+01
0.560E+03 0.21813E+01
0.570E+03 0.16445E+01
0.580E+03 0.13427E+01
0.590E+03 0.10409E+01
0.600E+03 0.75270E+00
0.610E+03 0.61739E+00
0.620E+03 0.48591E+00
0.630E+03 0.35443E+00
0.640E+03 0.27638E+00
0.650E+03 0.21920E+00
0.660E+03 0.16202E+00
0.670E+03 0.11717E+00
0.680E+03 0.92327E-01
0.690E+03 0.67486E-01
0.700E+03 0.43597E-01
0.710E+03 0.32461E-01
0.720E+03 0.21673E-01
0.730E+03 0.10886E-01
0.740E+03 0.44005E-02
0.750E+03 0.00000E+00

0.760E+03	0.000000E+00
0.770E+03	0.000000E+00
0.780E+03	0.000000E+00
0.790E+03	0.000000E+00
0.800E+03	0.000000E+00
0.810E+03	0.000000E+00
0.820E+03	0.000000E+00
0.830E+03	0.000000E+00
0.840E+03	0.000000E+00
0.850E+03	0.000000E+00
0.860E+03	0.000000E+00
0.870E+03	0.000000E+00
0.880E+03	0.000000E+00
0.890E+03	0.000000E+00
0.900E+03	0.000000E+00
0.910E+03	0.000000E+00
0.920E+03	0.000000E+00
0.930E+03	0.000000E+00
0.940E+03	0.000000E+00
0.950E+03	0.000000E+00
0.960E+03	0.000000E+00
0.970E+03	0.000000E+00
0.980E+03	0.000000E+00
0.990E+03	0.000000E+00
0.100E+04	0.000000E+00

Appendix E

Laboratory Analytical Reports



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

July 28, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 07/22/22 16:55.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 10 SURFACE SAMPLE (H223238-01)

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	07/26/2022	ND	2.12	106	2.00	3.17	
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50	
Total BTEX	<0.300	0.300	07/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	12400	16.0	07/27/2022	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	07/26/2022	ND	193	96.5	200	25.9	
DRO >C10-C28*	98.7	10.0	07/26/2022	ND	165	82.4	200	25.7	
EXT DRO >C28-C36	78.1	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 43-149

Surrogate: 1-Chlorooctadecane 93.4 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 10 @ 3' (H223238-02)

BTX 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	07/26/2022	ND	2.12	106	2.00	3.17		
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71		
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45		
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50		
Total BTX	<0.300	0.300	07/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	224	16.0	07/27/2022	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	07/26/2022	ND	193	96.5	200	25.9		
DRO >C10-C28*	11.6	10.0	07/26/2022	ND	165	82.4	200	25.7		
EXT DRO >C28-C36	12.1	10.0	07/26/2022	ND						

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 110 % 42.5-161

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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:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 1 @ 2' (H223238-03)

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	07/26/2022	ND	2.12	106	2.00	3.17	
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50	
Total BTEX	<0.300	0.300	07/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	304	16.0	07/27/2022	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	07/26/2022	ND	193	96.5	200	25.9	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	165	82.4	200	25.7	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 82.7 % 43-149

Surrogate: 1-Chlorooctadecane 85.3 % 42.5-161

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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:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 2 @ 2' (H223238-04)

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	07/26/2022	ND	2.12	106	2.00	3.17	
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50	
Total BTEX	<0.300	0.300	07/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	832	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 74.0 % 43-149

Surrogate: 1-Chlorooctadecane 82.0 % 42.5-161

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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:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 3 @ 2' (H223238-05)

BTX 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	07/26/2022	ND	2.12	106	2.00	3.17	
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50	
Total BTX	<0.300	0.300	07/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	160	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 62.4 % 43-149

Surrogate: 1-Chlorooctadecane 67.6 % 42.5-161

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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:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 4 @ 2' (H223238-06)

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	07/26/2022	ND	2.12	106	2.00	3.17	
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50	
Total BTEX	<0.300	0.300	07/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	208	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 70.0 % 43-149

Surrogate: 1-Chlorooctadecane 76.8 % 42.5-161

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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:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 5 @ 2' (H223238-07)

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	07/26/2022	ND	2.12	106	2.00	3.17	
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50	
Total BTEX	<0.300	0.300	07/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1060	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 68.4 % 43-149

Surrogate: 1-Chlorooctadecane 74.1 % 42.5-161

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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:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 6 @ 2' (H223238-08)

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	07/26/2022	ND	2.12	106	2.00	3.17	
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50	
Total BTEX	<0.300	0.300	07/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	112	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 71.2 % 43-149

Surrogate: 1-Chlorooctadecane 77.6 % 42.5-161

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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: 07/22/2022
 Reported: 07/28/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: NONE GIVEN
 Project Location: MEWBOURNE

Sampling Date: 07/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT - 7 @ 2' (H223238-09)

BTX 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	07/26/2022	ND	2.12	106	2.00	3.17		
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71		
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45		
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50		
Total BTX	<0.300	0.300	07/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	160	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41		
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33		
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND						

Surrogate: 1-Chlorooctane 65.8 % 43-149

Surrogate: 1-Chlorooctadecane 71.4 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 8 @ 2' (H223238-10)

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	07/26/2022	ND	2.12	106	2.00	3.17		
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71		
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45		
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50		
Total BTEx	<0.300	0.300	07/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	1300	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 68.6 % 43-149

Surrogate: 1-Chlorooctadecane 74.2 % 42.5-161

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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:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 5 @ 6' (H223238-11)

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	07/26/2022	ND	2.12	106	2.00	3.17		
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71		
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45		
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50		
Total BTEx	<0.300	0.300	07/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	224	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 66.9 % 43-149

Surrogate: 1-Chlorooctadecane 72.4 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 6 SURFACE SAMPLE (H223238-12)

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	07/26/2022	ND	2.12	106	2.00	3.17		
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71		
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45		
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50		
Total BTEx	<0.300	0.300	07/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	16100	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 53.7 % 43-149

Surrogate: 1-Chlorooctadecane 58.1 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 6 @ 2' (H223238-13)

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	07/26/2022	ND	2.12	106	2.00	3.17		
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71		
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45		
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50		
Total BTEX	<0.300	0.300	07/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	160	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41		
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33		
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND						

Surrogate: 1-Chlorooctane 66.8 % 43-149

Surrogate: 1-Chlorooctadecane 71.7 % 42.5-161

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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:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 7 SURFACE SAMPLE (H223238-14)

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	07/26/2022	ND	2.12	106	2.00	3.17	
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50	
Total BTEx	<0.300	0.300	07/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	20800	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 62.9 % 43-149

Surrogate: 1-Chlorooctadecane 68.2 % 42.5-161

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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:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 7 @ 4' (H223238-15)

BTX 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	07/26/2022	ND	2.12	106	2.00	3.17		
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71		
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45		
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50		
Total BTX	<0.300	0.300	07/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	416	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41		
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33		
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND						

Surrogate: 1-Chlorooctane 68.8 % 43-149

Surrogate: 1-Chlorooctadecane 75.2 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 8 SURFACE SAMPLE (H223238-16)

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	07/26/2022	ND	2.12	106	2.00	3.17		
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71		
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45		
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50		
Total BTEx	<0.300	0.300	07/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	13200	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 43-149

Surrogate: 1-Chlorooctadecane 85.0 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 8 @ 4' (H223238-17)

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	07/26/2022	ND	2.12	106	2.00	3.17	
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50	
Total BTEX	<0.300	0.300	07/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1340	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 78.0 % 43-149

Surrogate: 1-Chlorooctadecane 86.1 % 42.5-161

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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:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 8 @ 6' REFUSAL (H223238-18)

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	07/26/2022	ND	2.12	106	2.00	3.17		
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71		
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45		
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50		
Total BTEx	<0.300	0.300	07/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	512	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 76.8 % 43-149

Surrogate: 1-Chlorooctadecane 84.8 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 9 SURFACE SAMPLE (H223238-19)

BTX 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	07/26/2022	ND	2.12	106	2.00	3.17	
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50	
Total BTX	<0.300	0.300	07/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	14000	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 68.6 % 43-149

Surrogate: 1-Chlorooctadecane 74.8 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 9 @ 3' (H223238-20)

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	07/26/2022	ND	2.12	106	2.00	3.17	
Toluene*	<0.050	0.050	07/26/2022	ND	2.19	109	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/26/2022	ND	2.20	110	2.00	3.45	
Total Xylenes*	<0.150	0.150	07/26/2022	ND	6.70	112	6.00	3.50	
Total BTEx	<0.300	0.300	07/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	240	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 75.0 % 43-149

Surrogate: 1-Chlorooctadecane 82.2 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 1 SURFACE SAMPLE (H223238-21)

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	07/27/2022	ND	2.10	105	2.00		QR-03	
Toluene*	<0.050	0.050	07/27/2022	ND	2.12	106	2.00		QR-03	
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.17	108	2.00			
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.64	111	6.00			
Total BTEX	<0.300	0.300	07/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	86400	16.0	07/27/2022	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	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 68.6 % 43-149

Surrogate: 1-Chlorooctadecane 74.5 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 1 @ 4' (H223238-22)

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	07/27/2022	ND	2.10	105	2.00		
Toluene*	<0.050	0.050	07/27/2022	ND	2.12	106	2.00		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.17	108	2.00		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.64	111	6.00		
Total BTEX	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	64.0	16.0	07/27/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 43-149

Surrogate: 1-Chlorooctadecane 82.9 % 42.5-161

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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:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 2 SURFACE SAMPLE (H223238-23)

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	07/27/2022	ND	2.10	105	2.00		
Toluene*	<0.050	0.050	07/27/2022	ND	2.12	106	2.00		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.17	108	2.00		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.64	111	6.00		
Total BTEx	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	1760	16.0	07/27/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2022	ND	178	88.9	200	4.41	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	186	92.9	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 71.8 % 43-149

Surrogate: 1-Chlorooctadecane 78.0 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 2 @ 3' (H223238-24)

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	07/27/2022	ND	2.10	105	2.00		
Toluene*	<0.050	0.050	07/27/2022	ND	2.12	106	2.00		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.17	108	2.00		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.64	111	6.00		
Total BTEx	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	256	16.0	07/27/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2022	ND	208	104	200	4.81	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	213	106	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 43-149

Surrogate: 1-Chlorooctadecane 85.5 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 3 SURFACE SAMPLE (H223238-25)

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	07/27/2022	ND	2.10	105	2.00		
Toluene*	<0.050	0.050	07/27/2022	ND	2.12	106	2.00		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.17	108	2.00		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.64	111	6.00		
Total BTEx	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	12800	16.0	07/27/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2022	ND	208	104	200	4.81	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	213	106	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 72.5 % 43-149

Surrogate: 1-Chlorooctadecane 65.9 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 3 @ 3' (H223238-26)

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	07/27/2022	ND	2.10	105	2.00		
Toluene*	<0.050	0.050	07/27/2022	ND	2.12	106	2.00		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.17	108	2.00		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.64	111	6.00		
Total BTEx	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	336	16.0	07/27/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2022	ND	208	104	200	4.81	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	213	106	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 43-149

Surrogate: 1-Chlorooctadecane 78.7 % 42.5-161

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/22/2022
 Reported: 07/28/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: NONE GIVEN
 Project Location: MEWBOURNE

Sampling Date: 07/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TT - 4 SURFACE SAMPLE (H223238-27)

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	07/27/2022	ND	2.10	105	2.00		
Toluene*	0.075	0.050	07/27/2022	ND	2.12	106	2.00		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.17	108	2.00		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.64	111	6.00		
Total BTEx	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	13600	16.0	07/27/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2022	ND	208	104	200	4.81	
DRO >C10-C28*	159	10.0	07/26/2022	ND	213	106	200	6.60	
EXT DRO >C28-C36	125	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 81.4 % 43-149

Surrogate: 1-Chlorooctadecane 86.2 % 42.5-161

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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:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 4 @ 2' (H223238-28)

BTX 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	07/27/2022	ND	2.10	105	2.00			
Toluene*	<0.050	0.050	07/27/2022	ND	2.12	106	2.00			
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.17	108	2.00			
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.64	111	6.00			
Total BTX	<0.300	0.300	07/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	240	16.0	07/27/2022	ND	400	100	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/26/2022	ND	208	104	200	4.81		
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	213	106	200	6.60		
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND						

Surrogate: 1-Chlorooctane 87.3 % 43-149

Surrogate: 1-Chlorooctadecane 85.6 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 5 SURFACE SAMPLE (H223238-29)

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	07/27/2022	ND	2.10	105	2.00		
Toluene*	<0.050	0.050	07/27/2022	ND	2.12	106	2.00		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.17	108	2.00		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.64	111	6.00		
Total BTEx	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	5280	16.0	07/27/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2022	ND	208	104	200	4.81	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	213	106	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 81.7 % 43-149

Surrogate: 1-Chlorooctadecane 77.1 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 5 @ 4' (H223238-30)

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	07/27/2022	ND	2.10	105	2.00		
Toluene*	<0.050	0.050	07/27/2022	ND	2.12	106	2.00		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.17	108	2.00		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.64	111	6.00		
Total BTEX	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	5920	16.0	07/27/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2022	ND	208	104	200	4.81	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	213	106	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 43-149

Surrogate: 1-Chlorooctadecane 86.9 % 42.5-161

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Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 9 @ 2' (H223238-31)

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	07/27/2022	ND	2.10	105	2.00		
Toluene*	<0.050	0.050	07/27/2022	ND	2.12	106	2.00		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.17	108	2.00		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.64	111	6.00		
Total BTEX	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	512	16.0	07/27/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2022	ND	208	104	200	4.81	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	213	106	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 43-149

Surrogate: 1-Chlorooctadecane 79.6 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/22/2022	Sampling Date:	07/22/2022
Reported:	07/28/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: TT - 10 @ 2' (H223238-32)

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	07/27/2022	ND	2.10	105	2.00		
Toluene*	<0.050	0.050	07/27/2022	ND	2.12	106	2.00		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.17	108	2.00		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.64	111	6.00		
Total BTEx	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	07/27/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2022	ND	208	104	200	4.81	
DRO >C10-C28*	<10.0	10.0	07/26/2022	ND	213	106	200	6.60	
EXT DRO >C28-C36	<10.0	10.0	07/26/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 43-149

Surrogate: 1-Chlorooctadecane 82.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: Lance Crenshaw				P.O. #:				Chloride	TPH (8015M)	BTEX (8021B)																
Address: P.O. Box 301				Company: meuburne																						
City: Lovington State: NM Zip: 88260				Attn: Robbie Ruandis																						
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																						
Project #: Project Owner:				City:																						
Project Name: TOP Gun Federal SWDL				State: Zip:																						
Project Location:				Phone #:																						
Sampler Name: Aaron RioS				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												
42232358																										
1	TT-10 Surface Sample	X				X							7-22-22		X	X	X									
2	TT-10 @ 3Ft	X				X									X	X	X									
3	TT-1 @ 2Ft	X				X									X	X	X									
4	TT-2 @ 2Ft	X				X									X	X	X									
5	TT-3 @ 2Ft	X				X									X	X	X									
6	TT-4 @ 2Ft	X				X									X	X	X									
7	TT-5 @ 2Ft	X				X									X	X	X									
8	TT-6 @ 2Ft	X				X									X	X	X									
9	TT-7 @ 2Ft	X				X									X	X	X									
10	TT-8 @ 2Ft	X				X									X	X	X									

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Relinquished By:	Date: 7-22-22	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Aaron RioS</i>	Time: 1655	<i>Robbie Ruandis</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			

Delivered By: (Circle One) 4.2°C C-05C

Sampler - UPS - Bus - Other: 3.6°C #113

Sample Condition: Cool ☒ Intact ☒

Checked By: (Initials) *VR*

Please email results to pm@etechenv.com.



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.						BILL TO								ANALYSIS REQUEST														
Project Manager: Lance Crenshaw						P.O. #:																						
Address: P.O. Box 301						Company: Newburne																						
City: Lovington			State: NM Zip: 88260			Attn: Robbie Runnels																						
Phone #: (575) 396-2378			Fax #: (575) 396-1429			Address:																						
Project #:			Project Owner:			City:																						
Project Name: TOP Gun Federal Sub I.						State: Zip:																						
Project Location:						Phone #:																						
Sampler Name: Anon R/S						Fax #:																						
FOR LAB USE ONLY																												
Lab I.D.		Sample I.D.				(G/RAB OR C/JOMP.)	# CONTAINERS	MATRIX				PRESERV.	SAMPLING															
								GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME										
H223238					X				X								7-22-22		X	X	X							
11 TT-5 @ 6FT				X				X																				
12 TT-6 Surface Sample				X				X																				
13 TT-6 @ 2ft				X				X																				
14 TT-7 Surface Sample				X				X																				
15 TT-7 @ 4ft				X				X																				
16 TT-8 Surface Sample				X				X																				
17 TT-8 @ 4ft				X				X																				
18 TT-8 @ G Refusal				X				X																				
19 TT-9 Surface Sample				X				X																				
20 TT-9 @ 3ft				X				X																				

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Relinquished By: <i>[Signature]</i>	Date: 7-22-22 Time: 1655	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:		
REMARKS:		Please email results to pm@etechenv.com.	

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other: 4.2i C-O.6i 3.6i #13	Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	<i>[Initials]</i>



CARDINAL LABORATORIES

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 37 of 38

Company Name: Etch 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>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
Address: P.O. Box 301		Company: <i>Meybourne</i>																									
City: Lovington State: NM Zip: 88260		Attn: <i>Robbie Runnels</i>																									
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address:																									
Project #: Project Owner:		City:																									
Project Name: <i>TOP Gun Federal SWD 1.</i>		State: Zip:																									
Project Location:		Phone #:																									
Sampler Name: <i>Aaron Rios</i>		Fax #:																									
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
<i>H223238</i>																											
<i>21 TT-1 Surface Sample</i>		<i>X</i>				<i>X</i>							<i>7-22-22</i>		<i>X</i>	<i>X</i>	<i>X</i>										
<i>22 TT-1 @ 4Ft</i>		<i>X</i>				<i>X</i>																					
<i>23 TT-2 Surface Sample</i>		<i>X</i>				<i>X</i>																					
<i>24 TT-2 @ 3Ft</i>		<i>X</i>				<i>X</i>																					
<i>25 TT-3 Surface Sample</i>		<i>X</i>				<i>X</i>																					
<i>26 TT-3 @ 3Ft</i>		<i>X</i>				<i>X</i>																					
<i>27 TT-4 Surface Sample</i>		<i>X</i>				<i>X</i>																					
<i>28 TT-4 @ 2Ft</i>		<i>X</i>				<i>X</i>																					
<i>29 TT-5 Surface Sample</i>		<i>X</i>				<i>X</i>							<i>U</i>		<i>U</i>	<i>U</i>	<i>U</i>										
<i>30 TT-5 @ 4Ft</i>		<i>X</i>				<i>X</i>							<i>U</i>		<i>U</i>	<i>U</i>	<i>U</i>										
<p>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.</p>																											
Relinquished By: <i>[Signature]</i>		Date: <i>7-22-22</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS:																	
Time: <i>1655</i>		Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																					
Relinquished By:		Date:		Received By:		Time:																					
Delivered By: (Circle One) <i>4.2i</i>		C-O. 6i		Sample Condition		CHECKED BY: (Initials) <i>4.2i</i>		Please email results to pm@etechnv.com.																			
Sampler - UPS - Bus - Other: <i>3.6i #113</i>				Cool Intact																							

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



ARDINAL LABORATORIES

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

August 17, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 08/12/22 16:58.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 1 @ 4' (H223701-01)

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	08/17/2022	ND	2.03	102	2.00	8.62		
Toluene*	<0.050	0.050	08/17/2022	ND	2.03	101	2.00	8.37		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.97	98.5	2.00	8.64		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.10	102	6.00	7.59		
Total BTEX	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1120	16.0	08/17/2022	ND	416	104	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	08/16/2022	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	225	112	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 97.3 % 43-149

Surrogate: 1-Chlorooctadecane 115 % 42.5-161

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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: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 2 @ 6' (H223701-02)

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	08/17/2022	ND	2.03	102	2.00	8.62	
Toluene*	<0.050	0.050	08/17/2022	ND	2.03	101	2.00	8.37	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.97	98.5	2.00	8.64	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.10	102	6.00	7.59	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	672	16.0	08/17/2022	ND	416	104	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	08/16/2022	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	225	112	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 43-149

Surrogate: 1-Chlorooctadecane 107 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 3 @ 2' (H223701-03)

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	08/17/2022	ND	2.03	102	2.00	8.62	
Toluene*	<0.050	0.050	08/17/2022	ND	2.03	101	2.00	8.37	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.97	98.5	2.00	8.64	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.10	102	6.00	7.59	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	112	16.0	08/17/2022	ND	416	104	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	08/16/2022	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	225	112	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 43-149

Surrogate: 1-Chlorooctadecane 106 % 42.5-161

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Analytical Results For:

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

Received: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 4 @ 2' (H223701-04)

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	08/17/2022	ND	2.03	102	2.00	8.62	
Toluene*	<0.050	0.050	08/17/2022	ND	2.03	101	2.00	8.37	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.97	98.5	2.00	8.64	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.10	102	6.00	7.59	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	352	16.0	08/17/2022	ND	416	104	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	08/16/2022	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	225	112	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 43-149

Surrogate: 1-Chlorooctadecane 92.9 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 5 @ 3' (H223701-05)

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	08/17/2022	ND	2.03	102	2.00	8.62		
Toluene*	<0.050	0.050	08/17/2022	ND	2.03	101	2.00	8.37		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.97	98.5	2.00	8.64		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.10	102	6.00	7.59		
Total BTEX	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	64.0	16.0	08/17/2022	ND	416	104	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	08/16/2022	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	225	112	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 43-149

Surrogate: 1-Chlorooctadecane 98.4 % 42.5-161

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Received: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 6 @ 3' (H223701-06)

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	08/17/2022	ND	2.03	102	2.00	8.62	
Toluene*	<0.050	0.050	08/17/2022	ND	2.03	101	2.00	8.37	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.97	98.5	2.00	8.64	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.10	102	6.00	7.59	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	80.0	16.0	08/17/2022	ND	416	104	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	08/16/2022	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	225	112	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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Received: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 7 @ 3' (H223701-07)

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	08/17/2022	ND	2.03	102	2.00	8.62		
Toluene*	<0.050	0.050	08/17/2022	ND	2.03	101	2.00	8.37		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.97	98.5	2.00	8.64		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.10	102	6.00	7.59		
Total BTEX	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	608	16.0	08/17/2022	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	08/16/2022	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	225	112	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 43-149

Surrogate: 1-Chlorooctadecane 111 % 42.5-161

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Received: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 8 @ 2' (H223701-08)

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	08/17/2022	ND	2.03	102	2.00	8.62	
Toluene*	<0.050	0.050	08/17/2022	ND	2.03	101	2.00	8.37	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.97	98.5	2.00	8.64	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.10	102	6.00	7.59	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	192	16.0	08/17/2022	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	08/16/2022	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	225	112	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 93.6 % 43-149

Surrogate: 1-Chlorooctadecane 110 % 42.5-161

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 HOBBS NM, 88240
 Fax To:

Received: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 9 @ 3' (H223701-09)

BTX 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	08/17/2022	ND	2.02	101	2.00	5.44		
Toluene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	4.76		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.93	96.6	2.00	5.55		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.01	100	6.00	5.88		
Total BTX	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	224	16.0	08/17/2022	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	08/16/2022	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	225	112	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 43-149

Surrogate: 1-Chlorooctadecane 108 % 42.5-161

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Received: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 10 @ 5' (H223701-10)

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	08/17/2022	ND	2.02	101	2.00	5.44	
Toluene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	4.76	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.93	96.6	2.00	5.55	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.01	100	6.00	5.88	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	720	16.0	08/17/2022	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	08/16/2022	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	225	112	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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Received: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 11 @ 3' (H223701-11)

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	08/17/2022	ND	2.02	101	2.00	5.44		
Toluene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	4.76		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.93	96.6	2.00	5.55		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.01	100	6.00	5.88		
Total BTEx	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	448	16.0	08/17/2022	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	08/16/2022	ND	174	87.2	200	9.74	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	168	83.9	200	8.61	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 43-149

Surrogate: 1-Chlorooctadecane 85.0 % 42.5-161

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Received: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 12 @ 6' (H223701-12)

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	08/17/2022	ND	2.02	101	2.00	5.44		
Toluene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	4.76		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.93	96.6	2.00	5.55		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.01	100	6.00	5.88		
Total BTEx	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	880	16.0	08/17/2022	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	08/16/2022	ND	174	87.2	200	9.74	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	168	83.9	200	8.61	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 43-149

Surrogate: 1-Chlorooctadecane 88.5 % 42.5-161

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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: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 13 @ 3' (H223701-13)

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	08/17/2022	ND	2.02	101	2.00	5.44	
Toluene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	4.76	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.93	96.6	2.00	5.55	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.01	100	6.00	5.88	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	368	16.0	08/17/2022	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	08/16/2022	ND	174	87.2	200	9.74	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	168	83.9	200	8.61	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 79.3 % 43-149

Surrogate: 1-Chlorooctadecane 80.0 % 42.5-161

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Analytical Results For:

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

Received: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 14 @ 2' (H223701-14)

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	08/17/2022	ND	2.02	101	2.00	5.44		
Toluene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	4.76		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.93	96.6	2.00	5.55		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.01	100	6.00	5.88		
Total BTEX	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	176	16.0	08/17/2022	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	08/16/2022	ND	174	87.2	200	9.74	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	168	83.9	200	8.61	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 76.7 % 43-149

Surrogate: 1-Chlorooctadecane 77.6 % 42.5-161

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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: 08/12/2022
 Reported: 08/17/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 15 @ 2' (H223701-15)

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	08/17/2022	ND	2.02	101	2.00	5.44		
Toluene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	4.76		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.93	96.6	2.00	5.55		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.01	100	6.00	5.88		
Total BTEX	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	240	16.0	08/17/2022	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	08/16/2022	ND	174	87.2	200	9.74	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	168	83.9	200	8.61	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 74.3 % 43-149

Surrogate: 1-Chlorooctadecane 75.1 % 42.5-161

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

August 19, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 08/16/22 16:45.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 26 @ 3' (H223749-01)

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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	512	16.0	08/18/2022	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	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Analytical Results For:

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

Received: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 27 @ 3' (H223749-02)

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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEx	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	304	16.0	08/18/2022	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	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Analytical Results For:

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

Received: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 28 @ 3' (H223749-03)

BTX 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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	704	16.0	08/18/2022	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	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 109 % 42.5-161

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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: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 29 @ 3' (H223749-04)

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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEx	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	528	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 93.6 % 43-149

Surrogate: 1-Chlorooctadecane 109 % 42.5-161

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Analytical Results For:

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

Received: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 30 @ 2' (H223749-05)

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	08/17/2022	ND	2.11	106	2.00	9.39		
Toluene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	9.06		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	9.73		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.24	104	6.00	10.4		
Total BTEx	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	112	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 87.5 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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Analytical Results For:

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

Received: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 31 @ 3' (H223749-06)

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	08/17/2022	ND	2.11	106	2.00	9.39		
Toluene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	9.06		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	9.73		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.24	104	6.00	10.4		
Total BTEx	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	544	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 43-149

Surrogate: 1-Chlorooctadecane 108 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 32 @ 2' (H223749-07)

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	08/17/2022	ND	2.11	106	2.00	9.39	
Toluene*	<0.050	0.050	08/17/2022	ND	2.03	102	2.00	9.06	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	9.73	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.24	104	6.00	10.4	
Total BTEx	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 71.8 % 43-149

Surrogate: 1-Chlorooctadecane 83.0 % 42.5-161

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Analytical Results For:

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 HOBBS NM, 88240
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Received: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 33 @ 2' (H223749-08)

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	08/18/2022	ND	2.11	106	2.00	9.39	
Toluene*	<0.050	0.050	08/18/2022	ND	2.03	102	2.00	9.06	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	2.01	100	2.00	9.73	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.24	104	6.00	10.4	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	112	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Received: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 34 @ 2' (H223749-09)

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	08/18/2022	ND	2.11	106	2.00	9.39		
Toluene*	<0.050	0.050	08/18/2022	ND	2.03	102	2.00	9.06		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	2.01	100	2.00	9.73		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.24	104	6.00	10.4		
Total BTEx	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 82.2 % 43-149

Surrogate: 1-Chlorooctadecane 96.0 % 42.5-161

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Received: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 35 @ 2' (H223749-10)

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	08/18/2022	ND	2.11	106	2.00	9.39	
Toluene*	<0.050	0.050	08/18/2022	ND	2.03	102	2.00	9.06	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	2.01	100	2.00	9.73	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.24	104	6.00	10.4	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	368	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 43-149

Surrogate: 1-Chlorooctadecane 90.4 % 42.5-161

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 Fax To:

Received: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 16 @ 6' (H223749-11)

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	08/18/2022	ND	2.11	106	2.00	9.39		
Toluene*	<0.050	0.050	08/18/2022	ND	2.03	102	2.00	9.06		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	2.01	100	2.00	9.73		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.24	104	6.00	10.4		
Total BTEx	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1960	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 43-149

Surrogate: 1-Chlorooctadecane 108 % 42.5-161

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Received: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 17 @ 6' (H223749-12)

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	08/18/2022	ND	2.11	106	2.00	9.39		
Toluene*	<0.050	0.050	08/18/2022	ND	2.03	102	2.00	9.06		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	2.01	100	2.00	9.73		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.24	104	6.00	10.4		
Total BTEx	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	1980	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 43-149

Surrogate: 1-Chlorooctadecane 115 % 42.5-161

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 18 @ 2' (H223749-13)

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	08/18/2022	ND	2.11	106	2.00	9.39		
Toluene*	<0.050	0.050	08/18/2022	ND	2.03	102	2.00	9.06		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	2.01	100	2.00	9.73		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.24	104	6.00	10.4		
Total BTEx	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	560	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 43-149

Surrogate: 1-Chlorooctadecane 107 % 42.5-161

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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: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 19 @ 2' (H223749-14)

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	08/18/2022	ND	2.11	106	2.00	9.39	
Toluene*	<0.050	0.050	08/18/2022	ND	2.03	102	2.00	9.06	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	2.01	100	2.00	9.73	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.24	104	6.00	10.4	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	96.0	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 43-149

Surrogate: 1-Chlorooctadecane 112 % 42.5-161

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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: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 20 @ 2' (H223749-15)

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	08/18/2022	ND	1.98	99.1	2.00	4.22		
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75		
Total BTEX	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	112	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68		
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90		
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND						

Surrogate: 1-Chlorooctane 87.1 % 43-149

Surrogate: 1-Chlorooctadecane 109 % 42.5-161

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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: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 21 @ 2' (H223749-16)

BTX 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	08/18/2022	ND	1.98	99.1	2.00	4.22		
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75		
Total BTX	<0.300	0.300	08/18/2022	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	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 76.0 % 43-149

Surrogate: 1-Chlorooctadecane 87.8 % 42.5-161

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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: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 22 @ 2' (H223749-17)

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	08/18/2022	ND	1.98	99.1	2.00	4.22		
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75		
Total BTEx	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	208	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 85.5 % 43-149

Surrogate: 1-Chlorooctadecane 100 % 42.5-161

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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: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 23 @ 2' (H223749-18)

BTX 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	08/18/2022	ND	1.98	99.1	2.00	4.22		
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75		
Total BTX	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68		
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90		
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND						

Surrogate: 1-Chlorooctane 87.1 % 43-149

Surrogate: 1-Chlorooctadecane 100 % 42.5-161

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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: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 24 @ 3' (H223749-19)

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	08/18/2022	ND	1.98	99.1	2.00	4.22	
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	96.0	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 43-149

Surrogate: 1-Chlorooctadecane 94.8 % 42.5-161

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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: 08/16/2022
 Reported: 08/19/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 25 @ 2' (H223749-20)

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	08/18/2022	ND	1.98	99.1	2.00	4.22		
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75		
Total BTEx	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	112	16.0	08/18/2022	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	08/17/2022	ND	192	95.9	200	3.68	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	214	107	200	3.90	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 80.6 % 43-149

Surrogate: 1-Chlorooctadecane 94.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: <i>Debra King</i>		Date: <i>8/16/22</i>	Received By: <i>Stodolnick</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: <i>11045</i>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
Time:				email results	
Delivered By: (Circle One) <i>5.12</i>		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other: <i>C-D-162</i>		Cool Intact		(Initials)	
<i>4.52 #113</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>SK</i>	
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental & Safety Solutions				BILL TO				ANALYSIS REQUEST											
Project Manager: <i>Jane Cronshaw</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 West Marland				Company: <i>Mewbourne</i>															
City: Hobbs State: NM Zip: 88240				Attn: <i>Connor Walker</i>															
Phone #: (575) 264-9884 Fax #:				Address:															
Project #: <i>16075</i> Project Owner:				City:															
Project Name: <i>Top Gun Fed SWD #1</i>				State: Zip:															
Project Location:				Phone #:															
Sampler Name: <i>Aaron Mias</i>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					
<i>H023749</i>																			
<i>11</i>	<i>FS 16. @ 6ft</i>	<i>X</i>			<i>X</i>								<i>8-15-22</i>		<i>X</i>	<i>X</i>	<i>X</i>		
<i>12</i>	<i>FS 17. 6ft</i>																		
<i>13</i>	<i>FS 18. 2ft</i>																		
<i>14</i>	<i>FS 19. 2ft</i>																		
<i>15</i>	<i>FS 20. 2ft</i>																		
<i>16</i>	<i>FS 21. 2ft</i>																		
<i>17</i>	<i>FS 22. 2ft</i>																		
<i>18</i>	<i>FS 23. 2ft</i>																		
<i>19</i>	<i>VS 24. 3ft</i>																		
<i>20</i>	<i>FS 25. @ 2ft</i>																		

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Relinquished By: <i>[Signature]</i>	Date: <i>8/16/22</i> Time: <i>1645</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
			REMARKS:	
			email results	
Delivered By: (Circle One) <i>5.1c</i>	C.O. <i>6c</i>	Sample Condition	CHECKED BY: (Initials) <i>[Signature]</i>	
Sampler: <i>UPS</i> - Bus - Other:	<i>4.5c #113</i>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

August 23, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 08/18/22 17:00.

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, flowing 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 40 @ 6' (H223799-01)

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	08/19/2022	ND	2.06	103	2.00	0.460		
Toluene*	<0.050	0.050	08/19/2022	ND	2.05	102	2.00	1.74		
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	1.99	99.3	2.00	0.508		
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.14	102	6.00	0.0103		
Total BTEx	<0.300	0.300	08/19/2022	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	576	16.0	08/22/2022	ND	432	108	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	08/22/2022	ND	202	101	200	4.19	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	190	95.2	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 120 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 41 @ 6' (H223799-02)

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	08/19/2022	ND	2.06	103	2.00	0.460		
Toluene*	<0.050	0.050	08/19/2022	ND	2.05	102	2.00	1.74		
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	1.99	99.3	2.00	0.508		
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.14	102	6.00	0.0103		
Total BTEX	<0.300	0.300	08/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	640	16.0	08/22/2022	ND	432	108	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	08/22/2022	ND	202	101	200	4.19	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	190	95.2	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 116 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 42 @ 6' (H223799-03)

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	08/19/2022	ND	2.06	103	2.00	0.460		
Toluene*	<0.050	0.050	08/19/2022	ND	2.05	102	2.00	1.74		
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	1.99	99.3	2.00	0.508		
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.14	102	6.00	0.0103		
Total BTEX	<0.300	0.300	08/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	528	16.0	08/22/2022	ND	432	108	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	08/22/2022	ND	202	101	200	4.19	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	190	95.2	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 116 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 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
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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 43 @ 6' (H223799-04)

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	08/19/2022	ND	2.06	103	2.00	0.460		
Toluene*	<0.050	0.050	08/19/2022	ND	2.05	102	2.00	1.74		
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	1.99	99.3	2.00	0.508		
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.14	102	6.00	0.0103		
Total BTEX	<0.300	0.300	08/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	496	16.0	08/22/2022	ND	432	108	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	08/22/2022	ND	202	101	200	4.19	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	190	95.2	200	5.41	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 112 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
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 2617 W MARLAND
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 Fax To:

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 44 @ 6' (H223799-05)

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	08/19/2022	ND	2.06	103	2.00	0.460		
Toluene*	<0.050	0.050	08/19/2022	ND	2.05	102	2.00	1.74		
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	1.99	99.3	2.00	0.508		
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.14	102	6.00	0.0103		
Total BTEX	<0.300	0.300	08/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	400	16.0	08/22/2022	ND	432	108	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	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 115 % 45.3-161

Surrogate: 1-Chlorooctadecane 134 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 45 @ 6' (H223799-06)

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	08/19/2022	ND	2.06	103	2.00	0.460		
Toluene*	<0.050	0.050	08/19/2022	ND	2.05	102	2.00	1.74		
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	1.99	99.3	2.00	0.508		
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.14	102	6.00	0.0103		
Total BTEX	<0.300	0.300	08/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	640	16.0	08/22/2022	ND	432	108	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	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 116 % 45.3-161

Surrogate: 1-Chlorooctadecane 136 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 1 @ 6.5' (H223799-07)

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	08/19/2022	ND	2.06	103	2.00	0.460		
Toluene*	<0.050	0.050	08/19/2022	ND	2.05	102	2.00	1.74		
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	1.99	99.3	2.00	0.508		
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.14	102	6.00	0.0103		
Total BTEx	<0.300	0.300	08/19/2022	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	304	16.0	08/22/2022	ND	432	108	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	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 114 % 45.3-161

Surrogate: 1-Chlorooctadecane 136 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 2 @ 6.5' (H223799-08)

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	08/19/2022	ND	2.06	103	2.00	0.460		
Toluene*	<0.050	0.050	08/19/2022	ND	2.05	102	2.00	1.74		
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	1.99	99.3	2.00	0.508		
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.14	102	6.00	0.0103		
Total BTEX	<0.300	0.300	08/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	496	16.0	08/22/2022	ND	432	108	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	08/22/2022	ND	240	120	200	9.40		
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11		
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND						

Surrogate: 1-Chlorooctane 121 % 45.3-161

Surrogate: 1-Chlorooctadecane 142 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 7 @ 4' (H223799-09)

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	08/19/2022	ND	2.06	103	2.00	0.460		
Toluene*	<0.050	0.050	08/19/2022	ND	2.05	102	2.00	1.74		
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	1.99	99.3	2.00	0.508		
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.14	102	6.00	0.0103		
Total BTEX	<0.300	0.300	08/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	208	16.0	08/22/2022	ND	432	108	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	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 112 % 45.3-161

Surrogate: 1-Chlorooctadecane 134 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 10 @ 6.5' (H223799-10)

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	08/22/2022	ND	2.05	102	2.00	9.79	
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0	
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0	
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1	
Total BTEx	<0.300	0.300	08/22/2022	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	112	16.0	08/22/2022	ND	432	108	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	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161

Surrogate: 1-Chlorooctadecane 135 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 12 @ 6.5' (H223799-11)

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	08/22/2022	ND	2.05	102	2.00	9.79		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1		
Total BTEx	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	416	16.0	08/22/2022	ND	432	108	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	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161

Surrogate: 1-Chlorooctadecane 133 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WWS 1 (H223799-12)

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	08/22/2022	ND	2.05	102	2.00	9.79		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1		
Total BTEx	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	352	16.0	08/22/2022	ND	432	108	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	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WWS 2 (H223799-13)

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	08/22/2022	ND	2.05	102	2.00	9.79	
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0	
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0	
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1	
Total BTEx	<0.300	0.300	08/22/2022	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	176	16.0	08/22/2022	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	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 94.7 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WWS 3 (H223799-14)

BTX 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	08/22/2022	ND	2.05	102	2.00	9.79		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1		
Total BTX	<0.300	0.300	08/22/2022	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	192	16.0	08/22/2022	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	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NWS 1 (H223799-15)

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	08/22/2022	ND	2.05	102	2.00	9.79	
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0	
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0	
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1	
Total BTEx	<0.300	0.300	08/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	08/22/2022	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	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NWS 2 (H223799-16)

BTX 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	08/22/2022	ND	2.05	102	2.00	9.79		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1		
Total BTX	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	288	16.0	08/22/2022	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	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161

Surrogate: 1-Chlorooctadecane 136 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NWS 3 (H223799-17)

BTX 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	08/22/2022	ND	2.05	102	2.00	9.79	
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0	
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0	
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1	
Total BTX	<0.300	0.300	08/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	240	16.0	08/22/2022	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	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 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: 08/18/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NWS 4 (H223799-18)

BTX 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	08/22/2022	ND	2.05	102	2.00	9.79	
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0	
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0	
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1	
Total BTX	<0.300	0.300	08/22/2022	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	192	16.0	08/22/2022	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	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161

Surrogate: 1-Chlorooctadecane 138 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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

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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions				BILL TO				ANALYSIS REQUEST												
Project Manager: <u>Jarce Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>												
Address: 2617 West Marland				Company: <u>Mewbourne</u>																
City: Hobbs State: NM Zip: 88240				Attn: <u>Connor Walker</u>																
Phone #: (575) 264-9884 Fax #:				Address:																
Project #: <u>16075</u> Project Owner:				City:																
Project Name: <u>Top Gun Fed SWD#1</u>				State: Zip:																
Project Location:				Phone #:																
Sampler Name: <u>Aaron Kios</u>				Fax #:																
FOR LAB USE ONLY																				
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						
<u>H223799</u>																				
1 FS	40 @ 6 FT		X			X							8/18/22		X	X	X			
2 FS	41 @ 6 FT																			
3 FS	42 @ 6 FT																			
4 FS	43 @ 6 FT																			
5 FS	44 @ 6 FT																			
6 FS	45 @ 6 FT																			
7 FS	1 @ 6 1/2 FT																			
8 FS	2 @ 6 1/2 FT																			
9 FS	7 @ 4 FT																			
10 FS	10 @ 6 1/2 FT																			

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Relinquished By:	Date: <u>8/18/22</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
<u>Aaron Kios</u>	Time: <u>1100</u>	<u>Shadrach</u>	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results	
Delivered By: (Circle One)	4.5°C - 0.6°C	Sample Condition	CHECKED BY:	
Sampler: <input checked="" type="checkbox"/> UPS - <input type="checkbox"/> Bus - <input type="checkbox"/> Other:	3.9°C #113	Cool Intact	(Initials)	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>SR</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental & Safety Solutions				BILL TO				ANALYSIS REQUEST															
Project Manager: <u>Jance Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 West Marland				Company: <u>Newbourne</u>																			
City: Hobbs		State: NM Zip: 88240		Attn: <u>Connor Walker</u>																			
Phone #: (575) 264-9884		Fax #:		Address:																			
Project #: <u>16075</u>		Project Owner:		City:																			
Project Name: <u>TOP Gun Fed SWD #1</u>				State: Zip:																			
Project Location:				Phone #:																			
Sampler Name: <u>Aaron RioS</u>				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		(GRAB OR C/COMP. # CONTAINERS)		MATRIX		PRESERV.		SAMPLING													
						GROUNDWATER																	
						WASTEWATER																	
						SOIL																	
						OIL																	
						SLUDGE																	
						OTHER :																	
						ACID/BASE:																	
						ICE / COOL																	
						OTHER :																	
										DATE		TIME											
<u>H823799</u>		<u>11 FS 12 @ 6 1/2 Ft</u>		<u>X</u>		<u>X</u>				<u>8-18-22</u>													
<u>12 WWS 1</u>				<u>X</u>		<u>X</u>																	
<u>13 WWS 2</u>				<u>X</u>		<u>X</u>																	
<u>14 WWS 3</u>				<u>X</u>		<u>X</u>																	
<u>15 NWS 1</u>				<u>X</u>		<u>X</u>																	
<u>16 NWS 2</u>				<u>X</u>		<u>X</u>																	
<u>17 NWS 3</u>				<u>X</u>		<u>X</u>																	
<u>18 NWS 4</u>				<u>X</u>		<u>X</u>																	

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Relinquished By: <u>Aaron RioS</u>		Date: <u>8/18/22</u>		Received By: <u>S. Rodriguez</u>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: <u>1:00</u>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: <u>Email results</u>			
		Time:							
Delivered By: (Circle One) <u>4 S/C-O/L</u>				Sample Condition		CHECKED BY:			
Sampler: <u>UPS - Bus - Other: 392#113</u>				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) <u>SR</u>			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

August 23, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 08/19/22 16:53.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/19/2022	Sampling Date:	08/19/2022
Reported:	08/23/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: 36 @ 6' (H223828-01)

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	08/23/2022	ND	2.01	101	2.00	12.3	
Toluene*	<0.050	0.050	08/23/2022	ND	1.99	99.6	2.00	12.5	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.94	97.1	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.04	101	6.00	12.1	
Total BTEx	<0.300	0.300	08/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	304	16.0	08/23/2022	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	08/22/2022	ND	195	97.3	200	0.197	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	204	102	200	0.317	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 85.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.2 % 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: 08/19/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: 37 @ 6' (H223828-02)

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	08/23/2022	ND	2.01	101	2.00	12.3		
Toluene*	<0.050	0.050	08/23/2022	ND	1.99	99.6	2.00	12.5		
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.94	97.1	2.00	12.6		
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.04	101	6.00	12.1		
Total BTEx	<0.300	0.300	08/23/2022	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	304	16.0	08/23/2022	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	08/22/2022	ND	195	97.3	200	0.197	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	204	102	200	0.317	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.1 % 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: 08/19/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: 38 @ 6' (H223828-03)

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	08/23/2022	ND	2.01	101	2.00	12.3	
Toluene*	<0.050	0.050	08/23/2022	ND	1.99	99.6	2.00	12.5	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.94	97.1	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.04	101	6.00	12.1	
Total BTEx	<0.300	0.300	08/23/2022	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	320	16.0	08/23/2022	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	08/22/2022	ND	195	97.3	200	0.197	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	204	102	200	0.317	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

Cardinal Laboratories

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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: 08/19/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: 39 @ 6' (H223828-04)

BTX 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	08/23/2022	ND	2.01	101	2.00	12.3	
Toluene*	<0.050	0.050	08/23/2022	ND	1.99	99.6	2.00	12.5	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.94	97.1	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	6.04	101	6.00	12.1	
Total BTX	<0.300	0.300	08/23/2022	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	336	16.0	08/23/2022	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	08/22/2022	ND	195	97.3	200	0.197	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	204	102	200	0.317	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.8 % 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: 08/19/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: 49 @ 6' (H223828-05)

BTX 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	08/22/2022	ND	2.09	104	2.00	8.16	
Toluene*	<0.050	0.050	08/22/2022	ND	2.06	103	2.00	8.78	
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	2.02	101	2.00	8.72	
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.26	104	6.00	8.54	
Total BTX	<0.300	0.300	08/22/2022	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	480	16.0	08/23/2022	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	08/22/2022	ND	195	97.3	200	0.197	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	204	102	200	0.317	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 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: 08/19/2022
 Reported: 08/23/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: 52 @ 3' (H223828-06)

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	08/22/2022	ND	2.09	104	2.00	8.16		
Toluene*	<0.050	0.050	08/22/2022	ND	2.06	103	2.00	8.78		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	2.02	101	2.00	8.72		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.26	104	6.00	8.54		
Total BTEx	<0.300	0.300	08/22/2022	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	544	16.0	08/23/2022	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	08/22/2022	ND	195	97.3	200	0.197	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	204	102	200	0.317	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 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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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Add'l Phone #:
<i>Debra Rios</i>		8-19-22	<i>Shirley Aldred</i>	Fax Result:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Time:		REMARKS:			
				email results			
Delivered By: (Circle One)		Date:	Received By:				
		Time:					
Delivered By: (Circle One) (UPS) - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <i>TA</i>				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

August 29, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 08/23/22 16:55.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/23/2022	Sampling Date:	08/23/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: FS 16 @ 10' (H223863-01)

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	08/24/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	<0.050	0.050	08/24/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.62	93.7	6.00	1.90		
Total BTEX	<0.300	0.300	08/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	592	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	195	97.5	200	1.63	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	201	100	200	1.35	
EXT DRO >C28-C36	10.5	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 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:	08/23/2022	Sampling Date:	08/23/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: FS 17 @ 10' (H223863-02)

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	08/25/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	<0.050	0.050	08/25/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/25/2022	ND	5.62	93.7	6.00	1.90		
Total BTEX	<0.300	0.300	08/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	480	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	195	97.5	200	1.63		
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	201	100	200	1.35		
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND						

Surrogate: 1-Chlorooctane 87.7 % 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: 08/23/2022
 Reported: 08/29/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 28 @ 4' (H223863-03)

BTX 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	08/24/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	<0.050	0.050	08/24/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.62	93.7	6.00	1.90		
Total BTX	<0.300	0.300	08/24/2022	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	240	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	195	97.5	200	1.63	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	201	100	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.2 % 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: 08/23/2022
 Reported: 08/29/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 46 @ 4' (H223863-04)

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	08/24/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	<0.050	0.050	08/24/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.62	93.7	6.00	1.90		
Total BTEX	<0.300	0.300	08/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	336	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	195	97.5	200	1.63	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	201	100	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 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: 08/23/2022
 Reported: 08/29/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 47 @ 6' (H223863-05)

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	08/24/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	<0.050	0.050	08/24/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.62	93.7	6.00	1.90		
Total BTEX	<0.300	0.300	08/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	256	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	195	97.5	200	1.63	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	201	100	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 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: 08/23/2022
 Reported: 08/29/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 48 @ 4' (H223863-06)

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	08/24/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	<0.050	0.050	08/24/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.62	93.7	6.00	1.90		
Total BTEx	<0.300	0.300	08/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	208	16.0	08/24/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	247	124	200	2.92	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	247	124	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 70.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.5 % 46.3-178

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/23/2022	Sampling Date:	08/23/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: FS 50 @ 6' (H223863-07)

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	08/24/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	<0.050	0.050	08/24/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.62	93.7	6.00	1.90		
Total BTEX	<0.300	0.300	08/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	480	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	247	124	200	2.92	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	247	124	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 74.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.6 % 46.3-178

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Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 51 @ 6' (H223863-08)

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	08/24/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	<0.050	0.050	08/24/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.62	93.7	6.00	1.90		
Total BTEx	<0.300	0.300	08/24/2022	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	272	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	247	124	200	2.92	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	247	124	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 68.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.0 % 46.3-178

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Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 53 @ 2' (H223863-09)

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	08/24/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	<0.050	0.050	08/24/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.62	93.7	6.00	1.90		
Total BTEX	<0.300	0.300	08/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	80.0	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	247	124	200	2.92	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	247	124	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 65.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.3 % 46.3-178

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Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 54 @ 3' (H223863-10)

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	08/24/2022	ND	2.02	101	2.00	4.32	
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	97.9	2.00	4.42	
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.93	96.3	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.97	99.6	6.00	3.27	
Total BTEx	<0.300	0.300	08/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	160	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	247	124	200	2.92	
DRO >C10-C28*	11.0	10.0	08/25/2022	ND	247	124	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.3 % 46.3-178

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 HOBBS NM, 88240
 Fax To:

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 55 @ 3' (H223863-11)

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	08/24/2022	ND	2.02	101	2.00	4.32	
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	97.9	2.00	4.42	
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.93	96.3	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.97	99.6	6.00	3.27	
Total BTEx	<0.300	0.300	08/24/2022	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	192	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	247	124	200	2.92	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	247	124	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 77.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.5 % 46.3-178

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 HOBBS NM, 88240
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Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 56 @ 2' (H223863-12)

BTX 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	08/24/2022	ND	2.02	101	2.00	4.32	
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	97.9	2.00	4.42	
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.93	96.3	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.97	99.6	6.00	3.27	
Total BTX	<0.300	0.300	08/24/2022	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	512	16.0	08/24/2022	ND	400	100	400	7.69	

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	08/25/2022	ND	247	124	200	2.92	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	247	124	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 75.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.3 % 46.3-178

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Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 57 @ 3' (H223863-13)

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	08/24/2022	ND	2.02	101	2.00	4.32	
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	97.9	2.00	4.42	
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.93	96.3	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.97	99.6	6.00	3.27	
Total BTEx	<0.300	0.300	08/24/2022	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	144	16.0	08/24/2022	ND	400	100	400	7.69	

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	08/25/2022	ND	247	124	200	2.92	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	247	124	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 73.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.5 % 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: 08/23/2022
 Reported: 08/29/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 58 @ 2' (H223863-14)

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	08/24/2022	ND	2.02	101	2.00	4.32	
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	97.9	2.00	4.42	
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.93	96.3	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.97	99.6	6.00	3.27	
Total BTEx	<0.300	0.300	08/24/2022	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	304	16.0	08/24/2022	ND	400	100	400	7.69	

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	08/25/2022	ND	247	124	200	2.92	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	247	124	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 84.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.1 % 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:	08/23/2022	Sampling Date:	08/23/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: FS 59 @ 2' (H223863-15)

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	08/24/2022	ND	2.02	101	2.00	4.32		
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	97.9	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.93	96.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.97	99.6	6.00	3.27		
Total BTEX	<0.300	0.300	08/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	1260	16.0	08/24/2022	ND	400	100	400	7.69		

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	08/25/2022	ND	247	124	200	2.92	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	247	124	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					

Surrogate: 1-Chlorooctane 69.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions				BILL TO				ANALYSIS REQUEST											
Project Manager: <i>Lance Greenshaw</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 West Marland				Company: <i>Mewbourne</i>															
City: Hobbs State: NM Zip: 88240				Attn: <i>Connor Walker</i>															
Phone #: (575) 264-9884 Fax #:				Address:															
Project #: <i>16075</i> Project Owner:				City:															
Project Name: <i>Top Gun Fed SWO #1.</i>				State: Zip:															
Project Location:				Phone #:															
Sampler Name: <i>Arcen Kios</i>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					
<i>H223863</i>																			
1	FS 16 @ 10 Ft		X			X							8-23-22		X	X	X		
2	FS 17 @ 10 Ft																		
3	FS 28 @ 4 Ft																		
4	FS 46 @ 4 Ft																		
5	AR FS 47 @ 6 Ft																		
6	FS 48 @ 4 Ft																		
7	FS 50 @ 6 Ft																		
8	FS 51 @ 6 Ft																		
9	FS 53 @ 2 Ft																		
10	FS 54 @ 3 Ft																		

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Relinquished By:	Date: 8-23-22	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 16:55		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results	
Delivered By: (Circle One)	5.3c	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	C-0.6c	Cool Intact		
	4.7c #1/B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> No <input type="checkbox"/> No		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

August 30, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 08/25/22 16:52.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 60 @ 4' (H223928-01)

BTX 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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTX	<0.300	0.300	08/29/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.2 % 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: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 61 @ 9' (H223928-02)

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	08/29/2022	ND	2.13	106	2.00	2.16		
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80		
Total BTEx	<0.300	0.300	08/29/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	15.9	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	21.1	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 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: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 62 @ 3' (H223928-03)

BTX 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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTX	<0.300	0.300	08/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 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: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 63 @ 2' (H223928-04)

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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTEx	<0.300	0.300	08/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 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: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 64 @ 2' (H223928-05)

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	08/29/2022	ND	2.13	106	2.00	2.16		
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80		
Total BTEx	<0.300	0.300	08/29/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 73.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.2 % 46.3-178

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 65 @ 2' (H223928-06)

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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTEx	<0.300	0.300	08/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.2 % 46.3-178

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 2617 W MARLAND
 HOBBS NM, 88240
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Received: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 66 @ 2' (H223928-07)

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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTEx	<0.300	0.300	08/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Analytical Results For:

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Received: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 67 @ 2' (H223928-08)

BTX 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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTX	<0.300	0.300	08/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 81.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.0 % 46.3-178

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Received: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 68 @ 2' (H223928-09)

BTX 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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.2 % 46.3-178

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Received: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 69 @ 2' (H223928-10)

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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTEx	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 84.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.2 % 46.3-178

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Received: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 70 @ 2' (H223928-11)

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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTEX	<0.300	0.300	08/29/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.3 % 46.3-178

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Received: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 71 @ 2' (H223928-12)

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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTEx	<0.300	0.300	08/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Received: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 41 @ 7' (H223928-13)

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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTEx	<0.300	0.300	08/29/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.1 % 46.3-178

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Received: 08/25/2022
 Reported: 08/30/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 45 @ 7' (H223928-14)

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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTEX	<0.300	0.300	08/29/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/29/2022	ND	416	104	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane 83.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
		Time:		Fax Result:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:		
<i>[Signature]</i>		Time:	<i>[Signature]</i>			
Delivered By: (Circle One)		Sample Condition		email results		
<input checked="" type="checkbox"/> UPS - <input type="checkbox"/> Bus - <input type="checkbox"/> Other:		Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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

September 01, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 08/26/22 16:35.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 72 @ 3'	H223949-01	Soil	26-Aug-22 00:00	26-Aug-22 16:35
FS 73 @ 3'	H223949-02	Soil	26-Aug-22 00:00	26-Aug-22 16:35
FS 74 @ 2'	H223949-03	Soil	26-Aug-22 00:00	26-Aug-22 16:35
FS 75 @ 2'	H223949-04	Soil	26-Aug-22 00:00	26-Aug-22 16:35
FS 76 @ 2'	H223949-05	Soil	26-Aug-22 00:00	26-Aug-22 16:35
FS 77 @ 2'	H223949-06	Soil	26-Aug-22 00:00	26-Aug-22 16:35
FS 78 @ 2'	H223949-07	Soil	26-Aug-22 00:00	26-Aug-22 16:35
FS 79 @ 3'	H223949-08	Soil	26-Aug-22 00:00	26-Aug-22 16:35
FS 80 @ 2'	H223949-09	Soil	26-Aug-22 00:00	26-Aug-22 16:35
FS 81 @ 2'	H223949-10	Soil	26-Aug-22 00:00	26-Aug-22 16:35

09/01/22 - Client added Chloride to sample -07 (see COC). This is the revised report and will replace the one sent on 08/31/22.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

FS 72 @ 3'
H223949-01 (Soil)

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

Chloride	176		16.0	mg/kg	4	2083013	AC	30-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		113 %		69.9-140	2082937	JH/	30-Aug-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
Surrogate: 1-Chlorooctane		101 %		45.3-161	2082913	MS	30-Aug-22	8015B	
Surrogate: 1-Chlorooctadecane		106 %		46.3-178	2082913	MS	30-Aug-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

FS 73 @ 3'
H223949-02 (Soil)

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

Chloride	144		16.0	mg/kg	4	2083013	AC	30-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2082937	JH/	30-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	114 %	69.9-140	2082937	JH/	30-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	

Surrogate: 1-Chlorooctane	97.0 %	45.3-161	2082913	MS	30-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane	105 %	46.3-178	2082913	MS	30-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

FS 74 @ 2'
H223949-03 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	2083013	AC	30-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2082937	JH/	30-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	69.9-140		2082937	JH/	30-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			146 %	45.3-161		2082913	MS	30-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			158 %	46.3-178		2082913	MS	30-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

FS 75 @ 2'
H223949-04 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	2083013	AC	30-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2082937	JH/	30-Aug-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %	69.9-140		2082937	JH/	30-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.5 %	45.3-161		2082913	MS	30-Aug-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %	46.3-178		2082913	MS	30-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

FS 76 @ 2'
H223949-05 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	2083013	AC	30-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %	69.9-140		2082937	JH/	30-Aug-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
<i>Surrogate: 1-Chlorooctane</i>			98.8 %	45.3-161		2082913	MS	30-Aug-22	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			106 %	46.3-178		2082913	MS	30-Aug-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

FS 77 @ 2'
H223949-06 (Soil)

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

Chloride	144		16.0	mg/kg	4	2083013	AC	30-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	69.9-140		2082937	JH/	30-Aug-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
<i>Surrogate: 1-Chlorooctane</i>			114 %	45.3-161		2082913	MS	30-Aug-22	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			121 %	46.3-178		2082913	MS	30-Aug-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

FS 78 @ 2'
H223949-07 (Soil)

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

Chloride	416		16.0	mg/kg	4	2090112	AC	01-Sep-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			116 %	69.9-140		2082937	JH/	30-Aug-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
Surrogate: 1-Chlorooctane			85.8 %	45.3-161		2082913	MS	30-Aug-22	8015B	
Surrogate: 1-Chlorooctadecane			92.9 %	46.3-178		2082913	MS	30-Aug-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

FS 79 @ 3'
H223949-08 (Soil)

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

Chloride	256		16.0	mg/kg	4	2083013	AC	30-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2082937	JH/	30-Aug-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	112 %	69.9-140	2082937	JH/	30-Aug-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	

Surrogate: 1-Chlorooctane	89.3 %	45.3-161	2082913	MS	30-Aug-22	8015B	
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Surrogate: 1-Chlorooctadecane	94.6 %	46.3-178	2082913	MS	30-Aug-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

FS 80 @ 2'
H223949-09 (Soil)

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

Chloride	480		16.0	mg/kg	4	2083013	AC	30-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	69.9-140		2082937	JH/	30-Aug-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
<i>Surrogate: 1-Chlorooctane</i>			101 %	45.3-161		2082913	MS	30-Aug-22	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			107 %	46.3-178		2082913	MS	30-Aug-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

FS 81 @ 2'
H223949-10 (Soil)

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

Chloride	416		16.0	mg/kg	4	2083013	AC	30-Aug-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2082937	JH/	30-Aug-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		115 %		69.9-140	2082937	JH/	30-Aug-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2082913	MS	30-Aug-22	8015B	
Surrogate: 1-Chlorooctane		94.6 %		45.3-161	2082913	MS	30-Aug-22	8015B	
Surrogate: 1-Chlorooctadecane		101 %		46.3-178	2082913	MS	30-Aug-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2083013 - 1:4 DI Water**Blank (2083013-BLK1)**

Prepared & Analyzed: 30-Aug-22

Chloride	ND	16.0	mg/kg						
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LCS (2083013-BS1)

Prepared & Analyzed: 30-Aug-22

Chloride	448	16.0	mg/kg	400	112	80-120			
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LCS Dup (2083013-BSD1)

Prepared & Analyzed: 30-Aug-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.64	20	
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Batch 2090112 - 1:4 DI Water**Blank (2090112-BLK1)**

Prepared & Analyzed: 01-Sep-22

Chloride	ND	16.0	mg/kg						
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LCS (2090112-BS1)

Prepared & Analyzed: 01-Sep-22

Chloride	416	16.0	mg/kg	400	104	80-120			
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LCS Dup (2090112-BSD1)

Prepared & Analyzed: 01-Sep-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082937 - Volatiles**Blank (2082937-BLK1)**

Prepared: 29-Aug-22 Analyzed: 30-Aug-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0570		mg/kg	0.0500		114	69.9-140			

LCS (2082937-BS1)

Prepared: 29-Aug-22 Analyzed: 30-Aug-22

Benzene	2.04	0.050	mg/kg	2.00		102	83.4-122			
Toluene	2.03	0.050	mg/kg	2.00		101	84.2-126			
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.0	84.2-121			
m,p-Xylene	4.10	0.100	mg/kg	4.00		103	89.9-126			
o-Xylene	2.01	0.050	mg/kg	2.00		101	84.3-123			
Total Xylenes	6.11	0.150	mg/kg	6.00		102	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0554		mg/kg	0.0500		111	69.9-140			

LCS Dup (2082937-BSD1)

Prepared: 29-Aug-22 Analyzed: 30-Aug-22

Benzene	1.91	0.050	mg/kg	2.00		95.7	83.4-122	6.24	12.6	
Toluene	1.89	0.050	mg/kg	2.00		94.5	84.2-126	7.02	13.3	
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.7	84.2-121	6.58	13.9	
m,p-Xylene	3.87	0.100	mg/kg	4.00		96.7	89.9-126	5.85	13.6	
o-Xylene	1.93	0.050	mg/kg	2.00		96.3	84.3-123	4.33	14.1	
Total Xylenes	5.79	0.150	mg/kg	6.00		96.6	89.1-124	5.35	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0555		mg/kg	0.0500		111	69.9-140			

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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
2617 W MARLAND
HOBBS NM, 88240

Project: TOP GUN FEDERAL SWD 1
Project Number: 16075
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
01-Sep-22 16:09

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2082913 - General Prep - Organics**Blank (2082913-BLK1)**

Prepared: 29-Aug-22 Analyzed: 30-Aug-22

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	44.4		mg/kg	50.0		88.8	45.3-161		
Surrogate: 1-Chlorooctadecane	46.8		mg/kg	50.0		93.5	46.3-178		

LCS (2082913-BS1)

Prepared: 29-Aug-22 Analyzed: 30-Aug-22

GRO C6-C10	194	10.0	mg/kg	200		97.2	76.8-124		
DRO >C10-C28	217	10.0	mg/kg	200		108	74.9-127		
Total TPH C6-C28	411	10.0	mg/kg	400		103	77.5-124		
Surrogate: 1-Chlorooctane	51.7		mg/kg	50.0		103	45.3-161		
Surrogate: 1-Chlorooctadecane	55.1		mg/kg	50.0		110	46.3-178		

LCS Dup (2082913-BS1)

Prepared: 29-Aug-22 Analyzed: 30-Aug-22

GRO C6-C10	202	10.0	mg/kg	200		101	76.8-124	3.85	17.2
DRO >C10-C28	221	10.0	mg/kg	200		110	74.9-127	1.73	18.6
Total TPH C6-C28	423	10.0	mg/kg	400		106	77.5-124	2.74	17.6
Surrogate: 1-Chlorooctane	60.7		mg/kg	50.0		121	45.3-161		
Surrogate: 1-Chlorooctadecane	61.4		mg/kg	50.0		123	46.3-178		

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental & Safety Solutions				BILL TO				ANALYSIS REQUEST																										
Project Manager: Lance Crenshaw				P.O. #:				Chloride	TPH (8015M)	BTEX (8021B)																								
Address: 2617 West Marland				Company: Mewbourne																														
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																														
Phone #: (575) 264-9884 Fax #:				Address:																														
Project #: 16075 Project Owner:				City:																														
Project Name: Top Gun Fed S.W.D #1.				State: Zip:																														
Project Location:				Phone #:																														
Sampler Name: Aaron Kios				Fax #:																														
FOR LAB USE ONLY				MATRIX				PRESERV		SAMPLING																								
Lab I.D.	Sample I.D.	(GRAB OR C/OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME																				
H223949																																		
1	FS 72 @ 3 Ft		X		X								8-26-22		X	X	X																	
2	FS 73 @ 3 Ft		X		X										X	X	X																	
3	FS 74 @ 2 Ft		X		X										X	X	X																	
4	FS 75 @ 2 Ft		X		X										X	X	X																	
5	FS 76 @ 2 Ft		X		X										X	X	X																	
6	FS 77 @ 2 Ft		X		X										X	X	X																	
7	FS 78 @ 2 Ft		X		X										X	X	X																	
8	FS 79 @ 3 Ft		X		X										X	X	X																	
9	FS 80 @ 2 Ft		X		X										X	X	X																	
10	FS 81 @ 2 Ft		X		X										X	X	X																	

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Relinquished By:	Date:	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>Aaron Kios</i> Date: 8-26-22 Time: 16:35			REMARKS: email results	
Delivered By: (Circle One)		Sample Condition		
<input checked="" type="checkbox"/> Sampler - UPS - Bus - Other: 4.0°C / 3.4°C #13		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		
		CHECKED BY: (Initials) <i>JO</i>		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

September 02, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 08/30/22 16:45.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/30/2022
 Reported: 09/02/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 82 @ 2' (H223980-01)

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	09/01/2022	ND	2.15	108	2.00	3.87	
Toluene*	<0.050	0.050	09/01/2022	ND	2.09	104	2.00	3.57	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.30	105	6.00	2.41	
Total BTEX	<0.300	0.300	09/01/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/31/2022	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	09/01/2022	ND	211	106	200	2.06	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	213	107	200	0.500	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.2 % 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: 08/30/2022
 Reported: 09/02/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 83 @ 2' (H223980-02)

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	09/01/2022	ND	2.14	107	2.00	1.43	
Toluene*	<0.050	0.050	09/01/2022	ND	2.07	104	2.00	1.50	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.32	105	6.00	1.48	
Total BTEX	<0.300	0.300	09/01/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/31/2022	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	09/01/2022	ND	211	106	200	2.06	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	213	107	200	0.500	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.2 % 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: 08/30/2022
 Reported: 09/02/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 84 @ 2' (H223980-03)

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	09/01/2022	ND	2.14	107	2.00	1.43		
Toluene*	<0.050	0.050	09/01/2022	ND	2.07	104	2.00	1.50		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.32	105	6.00	1.48		
Total BTEx	<0.300	0.300	09/01/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/31/2022	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	09/01/2022	ND	211	106	200	2.06	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	213	107	200	0.500	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
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Received: 08/30/2022
 Reported: 09/02/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 85 @ 2' (H223980-04)

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	09/01/2022	ND	2.14	107	2.00	1.43	
Toluene*	<0.050	0.050	09/01/2022	ND	2.07	104	2.00	1.50	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.32	105	6.00	1.48	
Total BTEx	<0.300	0.300	09/01/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	08/31/2022	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	09/01/2022	ND	211	106	200	2.06	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	213	107	200	0.500	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 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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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
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 HOBBS NM, 88240
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Received: 08/30/2022
 Reported: 09/02/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 86 @ 2' (H223980-05)

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	09/01/2022	ND	2.14	107	2.00	1.43		
Toluene*	<0.050	0.050	09/01/2022	ND	2.07	104	2.00	1.50		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.32	105	6.00	1.48		
Total BTEX	<0.300	0.300	09/01/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	08/31/2022	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	09/01/2022	ND	211	106	200	2.06	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	213	107	200	0.500	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.1 % 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: 08/30/2022
 Reported: 09/02/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 87 @ 3' (H223980-06)

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	09/01/2022	ND	2.14	107	2.00	1.43		
Toluene*	<0.050	0.050	09/01/2022	ND	2.07	104	2.00	1.50		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	1.84		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.32	105	6.00	1.48		
Total BTEx	<0.300	0.300	09/01/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/31/2022	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	09/01/2022	ND	211	106	200	2.06	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	213	107	200	0.500	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.9 % 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: 08/30/2022
 Reported: 09/02/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 88 @ 2' (H223980-07)

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	09/01/2022	ND	2.14	107	2.00	1.43	
Toluene*	<0.050	0.050	09/01/2022	ND	2.07	104	2.00	1.50	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.32	105	6.00	1.48	
Total BTEX	<0.300	0.300	09/01/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/31/2022	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	09/01/2022	ND	211	106	200	2.06	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	213	107	200	0.500	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.0 % 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: 08/30/2022
 Reported: 09/02/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 89 @ 2' (H223980-08)

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	09/01/2022	ND	2.14	107	2.00	1.43	
Toluene*	<0.050	0.050	09/01/2022	ND	2.07	104	2.00	1.50	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.32	105	6.00	1.48	
Total BTEx	<0.300	0.300	09/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/31/2022	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	09/01/2022	ND	192	96.0	200	2.57	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	183	91.7	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 75.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.5 % 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: 08/30/2022
 Reported: 09/02/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 90 @ 2' (H223980-09)

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	09/01/2022	ND	2.14	107	2.00	1.43	
Toluene*	<0.050	0.050	09/01/2022	ND	2.07	104	2.00	1.50	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.32	105	6.00	1.48	
Total BTEx	<0.300	0.300	09/01/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/31/2022	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	09/01/2022	ND	192	96.0	200	2.57	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	183	91.7	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 76.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.3 % 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: 08/30/2022
 Reported: 09/02/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 08/30/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 91 @ 3' (H223980-10)

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	09/01/2022	ND	2.14	107	2.00	1.43	
Toluene*	<0.050	0.050	09/01/2022	ND	2.07	104	2.00	1.50	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	1.84	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.32	105	6.00	1.48	
Total BTEx	<0.300	0.300	09/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/31/2022	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	09/01/2022	ND	192	96.0	200	2.57	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	183	91.7	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 77.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

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>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																	
Address: P.O. Box 301				Company: <i>McWane</i>																					
City: Lovington		State: NM		Zip: 88260		Attn: <i>Connor Walker</i>																			
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																					
Project #: <i>16075</i>		Project Owner:		City:																					
Project Name: <i>TOP Gun Fed SWD #1.</i>				State: Zip:																					
Project Location:				Phone #:																					
Sampler Name: <i>Aaron Rio's</i>				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(G/RAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING															
						GROUNDWATER																			
						WASTEWATER																			
						SOIL																			
						OIL																			
						SLUDGE																			
						OTHER:																			
						ACID/BASE:																			
						ICE / COOL																			
						OTHER:																			
										DATE		TIME													
<i>H223980</i>																									
<i>1 FS 82 @ 2 Ft</i>				<i>X</i>		<i>X</i>				<i>X</i>		<i>8-30-22</i>				<i>X X X</i>									
<i>2 FS 83 @ 2 Ft</i>				<i> </i>		<i> </i>				<i> </i>		<i> </i>				<i> </i>									
<i>3 FS 84 @ 2 Ft</i>				<i> </i>		<i> </i>				<i> </i>		<i> </i>				<i> </i>									
<i>4 FS 85 @ 2 Ft</i>				<i> </i>		<i> </i>				<i> </i>		<i> </i>				<i> </i>									
<i>5 FS 86 @ 2 Ft</i>				<i> </i>		<i> </i>				<i> </i>		<i> </i>				<i> </i>									
<i>6 FS 87 @ 3 Ft</i>				<i> </i>		<i> </i>				<i> </i>		<i> </i>				<i> </i>									
<i>7 FS 88 @ 2 Ft</i>				<i> </i>		<i> </i>				<i> </i>		<i> </i>				<i> </i>									
<i>8 FS 89 @ 2 Ft</i>				<i> </i>		<i> </i>				<i> </i>		<i> </i>				<i> </i>									
<i>9 FS 90 @ 2 Ft</i>				<i> </i>		<i> </i>				<i> </i>		<i> </i>				<i> </i>									
<i>10 FS 91 @ 3 Ft</i>				<i> </i>		<i> </i>				<i> </i>		<i> </i>				<i> </i>									
<p>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.</p>																									
Relinquished By: <i>Aaron Rio's</i>				Date: <i>8/30/22</i>		Received By: <i>S. Rodriguez</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:													
				Time: <i>1645</i>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS:															
				Time:																					
Delivered By: (Circle One) <i>4.6C</i>				<i>C-O-W</i>		Sample Condition				CHECKED BY: <i>SR</i>															
Sampler - UPS - Bus - Other: <i>4.0C</i>						Cool Intact																			
						<input type="checkbox"/> Yes <input type="checkbox"/> No																			
						<input type="checkbox"/> Yes <input type="checkbox"/> No																			

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

September 07, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 09/01/22 16:51.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/01/2022
 Reported: 09/07/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 92 @ 2' (H224035-01)

BTX 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	09/03/2022	ND	2.05	103	2.00	11.8	
Toluene*	<0.050	0.050	09/03/2022	ND	2.03	101	2.00	11.9	
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	1.97	98.5	2.00	11.8	
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.14	102	6.00	11.6	
Total BTX	<0.300	0.300	09/03/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/06/2022	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	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 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: 09/01/2022
 Reported: 09/07/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 93 @ 2' (H224035-02)

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	09/03/2022	ND	2.05	103	2.00	11.8	
Toluene*	<0.050	0.050	09/03/2022	ND	2.03	101	2.00	11.9	
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	1.97	98.5	2.00	11.8	
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.14	102	6.00	11.6	
Total BTEX	<0.300	0.300	09/03/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/06/2022	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	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 89.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 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: 09/01/2022
 Reported: 09/07/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 94 @ 4' (H224035-03)

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	09/03/2022	ND	2.05	103	2.00	11.8	
Toluene*	<0.050	0.050	09/03/2022	ND	2.03	101	2.00	11.9	
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	1.97	98.5	2.00	11.8	
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.14	102	6.00	11.6	
Total BTEX	<0.300	0.300	09/03/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/06/2022	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	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

Cardinal Laboratories

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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: 09/01/2022
 Reported: 09/07/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 95 @ 2' (H224035-04)

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	09/03/2022	ND	2.05	103	2.00	11.8	
Toluene*	<0.050	0.050	09/03/2022	ND	2.03	101	2.00	11.9	
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	1.97	98.5	2.00	11.8	
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.14	102	6.00	11.6	
Total BTEX	<0.300	0.300	09/03/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/06/2022	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	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 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: 09/01/2022
 Reported: 09/07/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 96 @ 2' (H224035-05)

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	09/03/2022	ND	2.05	103	2.00	11.8	
Toluene*	<0.050	0.050	09/03/2022	ND	2.03	101	2.00	11.9	
Ethylbenzene*	<0.050	0.050	09/03/2022	ND	1.97	98.5	2.00	11.8	
Total Xylenes*	<0.150	0.150	09/03/2022	ND	6.14	102	6.00	11.6	
Total BTEX	<0.300	0.300	09/03/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/06/2022	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	09/02/2022	ND	190	94.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	204	102	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 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: 09/01/2022
 Reported: 09/07/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 97 @ 4' (H224035-06)

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	09/06/2022	ND	2.05	103	2.00	11.8	
Toluene*	<0.050	0.050	09/06/2022	ND	2.03	101	2.00	11.9	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.97	98.5	2.00	11.8	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	6.14	102	6.00	11.6	
Total BTEx	<0.300	0.300	09/06/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/06/2022	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	09/03/2022	ND	204	102	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 97.0 % 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: 09/01/2022
 Reported: 09/07/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 98 @ 3' (H224035-07)

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	09/06/2022	ND	2.05	103	2.00	11.8		
Toluene*	<0.050	0.050	09/06/2022	ND	2.03	101	2.00	11.9		
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.97	98.5	2.00	11.8		
Total Xylenes*	<0.150	0.150	09/06/2022	ND	6.14	102	6.00	11.6		
Total BTEx	<0.300	0.300	09/06/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/06/2022	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	09/03/2022	ND	204	102	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 85.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.1 % 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: 09/01/2022
 Reported: 09/07/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 99 @ 3' (H224035-08)

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	09/06/2022	ND	2.05	103	2.00	11.8	
Toluene*	<0.050	0.050	09/06/2022	ND	2.03	101	2.00	11.9	
Ethylbenzene*	<0.050	0.050	09/06/2022	ND	1.97	98.5	2.00	11.8	
Total Xylenes*	<0.150	0.150	09/06/2022	ND	6.14	102	6.00	11.6	
Total BTEX	<0.300	0.300	09/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/06/2022	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	09/03/2022	ND	204	102	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 75.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.1 % 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: 09/01/2022
 Reported: 09/07/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 100 @ 4' (H224035-09)

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	09/02/2022	ND	2.00	100	2.00	9.28		
Toluene*	<0.050	0.050	09/02/2022	ND	2.35	117	2.00	14.4		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.34	117	2.00	17.2		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.26	121	6.00	17.5		
Total BTEX	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/06/2022	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	09/03/2022	ND	204	102	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.8 % 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: 09/01/2022
 Reported: 09/07/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 59 @ 3' (H224035-10)

BTX 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	09/02/2022	ND	2.00	100	2.00	9.28	
Toluene*	<0.050	0.050	09/02/2022	ND	2.35	117	2.00	14.4	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.34	117	2.00	17.2	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.26	121	6.00	17.5	
Total BTX	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/06/2022	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	09/03/2022	ND	204	102	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

September 09, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 09/02/22 16:51.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 121 @ 2' (H224055-01)

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	09/08/2022	ND	1.83	91.4	2.00	2.89	
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87	
Total BTEX	<0.300	0.300	09/08/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/08/2022	ND	416	104	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	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 122 @ 2' (H224055-02)

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	09/08/2022	ND	1.83	91.4	2.00	2.89	
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87	
Total BTEx	<0.300	0.300	09/08/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/08/2022	ND	416	104	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	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 123 @ 2' (H224055-03)

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	09/08/2022	ND	1.83	91.4	2.00	2.89	
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87	
Total BTEx	<0.300	0.300	09/08/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/08/2022	ND	416	104	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	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 124 @ 2' (H224055-04)

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	09/08/2022	ND	1.83	91.4	2.00	2.89	
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87	
Total BTEx	<0.300	0.300	09/08/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/08/2022	ND	416	104	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	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 125 @ 2' (H224055-05)

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	09/08/2022	ND	1.83	91.4	2.00	2.89	
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87	
Total BTEx	<0.300	0.300	09/08/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/08/2022	ND	416	104	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	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 126 @ 2' (H224055-06)

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	09/08/2022	ND	1.83	91.4	2.00	2.89		
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87		
Total BTEx	<0.300	0.300	09/08/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	09/08/2022	ND	416	104	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	09/07/2022	ND	174	86.8	200	7.63	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	177	88.3	200	9.79	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 127 @ 3' (H224055-07)

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	09/08/2022	ND	1.83	91.4	2.00	2.89	
Toluene*	<0.050	0.050	09/08/2022	ND	2.05	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.03	101	2.00	9.47	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	6.24	104	6.00	9.87	
Total BTEX	<0.300	0.300	09/08/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/08/2022	ND	416	104	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	09/07/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.1 % 46.3-178

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 128 @ 3' (H224055-08)

BTX 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	09/08/2022	ND	1.90	95.2	2.00	11.5	QM-07
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8	
Total BTX	<0.300	0.300	09/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/08/2022	ND	416	104	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	09/07/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 129 @ 3' (H224055-09)

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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	09/08/2022	ND	416	104	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	09/07/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	13.8	10.0	09/07/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.3 % 46.3-178

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 130 @ 2' (H224055-10)

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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTEX	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/08/2022	ND	416	104	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 111 @ 3' (H224055-11)

BTX 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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTX	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/08/2022	ND	416	104	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.8 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 112 @ 2' (H224055-12)

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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	09/08/2022	ND	416	104	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 113 @ 2' (H224055-13)

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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTEX	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/08/2022	ND	416	104	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 114 @ 2' (H224055-14)

BTX 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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTX	<0.300	0.300	09/08/2022	ND						

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

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/08/2022	ND	416	104	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	09/08/2022	ND	185	92.4	200	4.97		
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62		
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND						

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 115 @ 2' (H224055-15)

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	09/08/2022	ND	1.90	95.2	2.00	11.5	
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8	
Total BTEx	<0.300	0.300	09/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/08/2022	ND	416	104	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.8 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 116 @ 2' (H224055-16)

BTX 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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTX	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/08/2022	ND	416	104	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 117 @ 2' (H224055-17)

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	09/08/2022	ND	1.90	95.2	2.00	11.5	
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7	
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5	
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8	
Total BTEX	<0.300	0.300	09/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/08/2022	ND	416	104	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 83.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.2 % 46.3-178

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 118 @ 2' (H224055-18)

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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	09/08/2022	ND	416	104	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 93.6 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 119 @ 2' (H224055-19)

BTX 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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTX	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/08/2022	ND	416	104	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 120 @ 2' (H224055-20)

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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTEX	<0.300	0.300	09/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/08/2022	ND	416	104	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 101 @ 4' (H224055-21)

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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/08/2022	ND	416	104	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 77.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.6 % 46.3-178

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 102 @ 3' (H224055-22)

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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/08/2022	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.5 % 46.3-178

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 HOBBS NM, 88240
 Fax To:

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 103 @ 2' (H224055-23)

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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	09/08/2022	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 104 @ 3' (H224055-24)

BTX 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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTX	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/08/2022	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 90.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.9 % 46.3-178

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 105 @ 3' (H224055-25)

BTX 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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTX	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/08/2022	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	09/08/2022	ND	185	92.4	200	4.97		
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62		
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND						

Surrogate: 1-Chlorooctane 90.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.8 % 46.3-178

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Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 106 @ 4' (H224055-26)

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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTEx	<0.300	0.300	09/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/08/2022	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	09/08/2022	ND	185	92.4	200	4.97	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	176	88.1	200	7.62	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 87.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.0 % 46.3-178

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Analytical Results For:

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Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 107 @ 3' (H224055-27)

BTX 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	09/08/2022	ND	1.90	95.2	2.00	11.5		
Toluene*	<0.050	0.050	09/08/2022	ND	1.94	96.9	2.00	12.7		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	1.90	94.9	2.00	11.5		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	5.92	98.7	6.00	10.8		
Total BTX	<0.300	0.300	09/08/2022	ND						

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

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/08/2022	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	09/07/2022	ND	190	95.1	200	6.79		
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	184	91.8	200	10.0		
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND						

Surrogate: 1-Chlorooctane 70.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.0 % 46.3-178

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Received: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 108 @ 3' (H224055-28)

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	09/07/2022	ND	1.92	96.0	2.00	16.7		
Toluene*	<0.050	0.050	09/07/2022	ND	1.96	97.8	2.00	17.0		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.93	96.6	2.00	16.8		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.06	101	6.00	16.9		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/08/2022	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	09/07/2022	ND	190	95.1	200	6.79	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	184	91.8	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.3 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 109 @ 2' (H224055-29)

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	09/07/2022	ND	1.92	96.0	2.00	16.7		
Toluene*	<0.050	0.050	09/07/2022	ND	1.96	97.8	2.00	17.0		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.93	96.6	2.00	16.8		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.06	101	6.00	16.9		
Total BTEX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	09/08/2022	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	09/07/2022	ND	190	95.1	200	6.79		
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	184	91.8	200	10.0		
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND						

Surrogate: 1-Chlorooctane 84.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.3 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 110 @ 3' (H224055-30)

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	09/07/2022	ND	1.92	96.0	2.00	16.7		
Toluene*	<0.050	0.050	09/07/2022	ND	1.96	97.8	2.00	17.0		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.93	96.6	2.00	16.8		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.06	101	6.00	16.9		
Total BTEx	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/08/2022	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	09/07/2022	ND	190	95.1	200	6.79	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	184	91.8	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.5 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 131 @ 2' (H224055-31)

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	09/07/2022	ND	1.92	96.0	2.00	16.7		
Toluene*	<0.050	0.050	09/07/2022	ND	1.96	97.8	2.00	17.0		
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.93	96.6	2.00	16.8		
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.06	101	6.00	16.9		
Total BTEX	<0.300	0.300	09/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/08/2022	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	09/07/2022	ND	190	95.1	200	6.79	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	184	91.8	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.1 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 132 @ 2' (H224055-32)

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	09/07/2022	ND	1.92	96.0	2.00	16.7	
Toluene*	<0.050	0.050	09/07/2022	ND	1.96	97.8	2.00	17.0	
Ethylbenzene*	<0.050	0.050	09/07/2022	ND	1.93	96.6	2.00	16.8	
Total Xylenes*	<0.150	0.150	09/07/2022	ND	6.06	101	6.00	16.9	
Total BTEx	<0.300	0.300	09/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/08/2022	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	09/07/2022	ND	190	95.1	200	6.79	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	184	91.8	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.2 % 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: 09/02/2022
 Reported: 09/09/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 85 @ 3' (H224055-33)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/08/2022	ND	432	108	400	0.00	

Sample ID: FS 71 @ 3' (H224055-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/08/2022	ND	432	108	400	0.00	

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 36 of 39

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: <i>Jonee Crenshaw</i>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: P.O. Box 301				Company: <i>Mewbourne</i>																									
City: Lovington State: NM Zip: 88260				Attn: <i>Connor Walker</i>																									
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																									
Project #: <i>16075</i> Project Owner:				City:																									
Project Name: <i>TOP GUN Fed SWD #1.</i>				State: Zip:																									
Project Location:				Phone #:																									
Sampler Name: <i>Aaron Rios</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>H224055</i>																													
<i>1</i>		<i>FS 121 @ 2 ft</i>		<i>X</i>				<i>X</i>																		<i>9-2-22</i>			
<i>2</i>		<i>FS 122 @ 2 ft</i>		<i>X</i>																									
<i>3</i>		<i>FS 123 @ 2 ft</i>		<i>X</i>																									
<i>4</i>		<i>FS 124 @ 2 ft</i>		<i>X</i>																									
<i>5</i>		<i>FS 125 @ 2 ft</i>		<i>X</i>																									
<i>6</i>		<i>FS 126 @ 2 ft</i>		<i>X</i>																									
<i>7</i>		<i>FS 127 @ 3 ft</i>		<i>X</i>																									
<i>8</i>		<i>FS 128 @ 3 ft</i>		<i>X</i>																									
<i>9</i>		<i>FS 129 @ 3 ft</i>		<i>X</i>																									
<i>10</i>		<i>FS 130 @ 2 ft</i>		<i>X</i>																									

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Relinquished By:	Date:	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:				

Relinquished By:	Date:	Received By:
<i>Aaron Rios</i>	<i>9-2-22</i>	<i>Blodkian</i>
	Time:	
	<i>1051</i>	

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
<i>22-7:10-0.62</i>	Cool Intact	(Initials)
<i>22-3:113</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<i>SR</i>

Sampler - UPS - Bus - Other: *22-3:113*

Please email results to pm@etechenv.com.

FORM-006
Revision 1.0

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Page 37 of 39

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lane Crenshaw Address: P.O. Box 301 City: Lovington State: NM Zip: 88260 Phone #: (575) 396-2378 Fax #: (575) 396-1429 Project #: 16075 Project Owner: Project Name: Top Gun Fed SWD #1. Project Location: Sampler Name: Aaron Rios				BILL TO P.O. #: Company: Mewbarne Attn: Connor Walker Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																																			
				Chloride TPH (8015M) BTEX (8021B)																																							
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															
H22455																																											
21		FS 101 @ 4 Ft		X				X																		9/2/22						X X X											
22		FS 102 @ 3 Ft		↓																																							
23		FS 103 @ 2 Ft		↓																																							
24		FS 104 @ 3 Ft		↓																																							
25		FS 105 @ 3 Ft		↓																																							
26		FS 106 @ 4 Ft		↓																																							
27		FS 107 @ 3 Ft		↓																																							
28		FS 108 @ 3 Ft		↓																																							
29		FS 109 @ 2 Ft		↓																																							
30		FS 110 @ 3 Ft		↓																																							

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Relinquished By:		Date:		Received By:		Phone Result:		Fax Result:		Add'l Phone #:		Add'l Fax #:	
		Time:				<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No					
						REMARKS:							

Relinquished By: *Aaron Rios* Date: *9-2-22* Received By: *Skodkiewicz* Time: *1:51*

Delivered By: (Circle One)		Sample Condition		CHECKED BY:	
<input checked="" type="checkbox"/> UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other:		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) <i>SK</i>	
2290 C.O.U.S. 2231 #113					

Please email results to pm@etechenv.com.

FORM-006
Revision 1.0

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 12, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 09/07/22 14:00.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 1. @ SURFACE (H224109-01)

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	09/09/2022	ND	2.06	103	2.00	2.64	
Toluene*	<0.050	0.050	09/09/2022	ND	2.02	101	2.00	2.50	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.98	98.8	2.00	3.23	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.09	102	6.00	3.29	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	09/08/2022	ND	432	108	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	09/08/2022	ND	208	104	200	2.67	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	204	102	200	0.603	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 89.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.6 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 1. @ 1' (H224109-02)

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	09/09/2022	ND	2.06	103	2.00	2.64	
Toluene*	<0.050	0.050	09/09/2022	ND	2.02	101	2.00	2.50	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.98	98.8	2.00	3.23	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.09	102	6.00	3.29	
Total BTEx	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	09/08/2022	ND	432	108	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	09/08/2022	ND	208	104	200	2.67	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	204	102	200	0.603	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.9 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 1. @ 2' (H224109-03)

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	09/09/2022	ND	2.06	103	2.00	2.64	
Toluene*	<0.050	0.050	09/09/2022	ND	2.02	101	2.00	2.50	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.98	98.8	2.00	3.23	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.09	102	6.00	3.29	
Total BTEx	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	09/08/2022	ND	432	108	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	09/08/2022	ND	208	104	200	2.67	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	204	102	200	0.603	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.0 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 1. @ 3' (H224109-04)

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	09/09/2022	ND	2.06	103	2.00	2.64	
Toluene*	<0.050	0.050	09/09/2022	ND	2.02	101	2.00	2.50	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.98	98.8	2.00	3.23	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.09	102	6.00	3.29	
Total BTEx	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	09/08/2022	ND	432	108	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	09/08/2022	ND	208	104	200	2.67	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	204	102	200	0.603	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.7 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 1. @ 4' (H224109-05)

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	09/09/2022	ND	2.06	103	2.00	2.64	
Toluene*	<0.050	0.050	09/09/2022	ND	2.02	101	2.00	2.50	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.98	98.8	2.00	3.23	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.09	102	6.00	3.29	
Total BTEx	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	09/08/2022	ND	432	108	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	09/08/2022	ND	208	104	200	2.67	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	204	102	200	0.603	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.9 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 1. @ 5' (H224109-06)

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	09/09/2022	ND	2.06	103	2.00	2.64	
Toluene*	<0.050	0.050	09/09/2022	ND	2.02	101	2.00	2.50	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.98	98.8	2.00	3.23	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.09	102	6.00	3.29	
Total BTEX	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	09/08/2022	ND	432	108	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	09/08/2022	ND	208	104	200	2.67	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	204	102	200	0.603	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 86.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.4 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 1. @ 6' (H224109-07)

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	09/09/2022	ND	2.06	103	2.00	2.64	
Toluene*	<0.050	0.050	09/09/2022	ND	2.02	101	2.00	2.50	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.98	98.8	2.00	3.23	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.09	102	6.00	3.29	
Total BTEx	<0.300	0.300	09/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/08/2022	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	09/08/2022	ND	208	104	200	2.67	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	204	102	200	0.603	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.3 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 2. @ SURFACE (H224109-08)

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	09/09/2022	ND	2.02	101	2.00	0.360		
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570		
Total BTEX	<0.300	0.300	09/09/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	09/08/2022	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	09/08/2022	ND	208	104	200	2.67	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	204	102	200	0.603	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 89.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.8 % 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: 09/07/2022
 Reported: 09/12/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 2. @ 1' (H224109-09)

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	09/09/2022	ND	2.02	101	2.00	0.360		
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570		
Total BTEX	<0.300	0.300	09/09/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 72.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.3 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 2. @ 2' (H224109-10)

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	09/09/2022	ND	2.02	101	2.00	0.360		
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570		
Total BTEX	<0.300	0.300	09/09/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 64.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.4 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 2. @ 3' (H224109-11)

BTX 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	09/09/2022	ND	2.02	101	2.00	0.360	
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570	
Total BTX	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.2 % 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: 09/07/2022
 Reported: 09/12/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 2. @ 4' (H224109-12)

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	09/09/2022	ND	2.02	101	2.00	0.360	
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570	
Total BTEX	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 3. @ SURFACE (H224109-13)

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	09/09/2022	ND	2.02	101	2.00	0.360	
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570	
Total BTEx	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20000	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	132	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	20.4	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.6 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 3. @ 1' (H224109-14)

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	09/09/2022	ND	2.02	101	2.00	0.360		
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570		
Total BTEx	<0.300	0.300	09/09/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 3. @ 2' (H224109-15)

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	09/09/2022	ND	2.02	101	2.00	0.360		
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570		
Total BTEX	<0.300	0.300	09/09/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9600	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.7 % 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: 09/07/2022
 Reported: 09/12/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 3. @ 3' (H224109-16)

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	09/09/2022	ND	2.02	101	2.00	0.360	
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570	
Total BTEX	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.5 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 3. @ 4' (H224109-17)

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	09/09/2022	ND	2.02	101	2.00	0.360	
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570	
Total BTEx	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 3. @ 5' (H224109-18)

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	09/09/2022	ND	2.02	101	2.00	0.360	
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570	
Total BTEX	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	72.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 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: 09/07/2022
 Reported: 09/12/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 3. @ 6' (H224109-19)

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	09/09/2022	ND	2.02	101	2.00	0.360		
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570		
Total BTEx	<0.300	0.300	09/09/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	15.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 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: 09/07/2022
 Reported: 09/12/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 4. @ SURFACE (H224109-20)

BTX 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	09/09/2022	ND	2.02	101	2.00	0.360	
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570	
Total BTX	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.6 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 4. @ 1' (H224109-21)

BTX 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	09/09/2022	ND	2.02	101	2.00	0.360	
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570	
Total BTX	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.4 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 4. @ 2' (H224109-22)

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	09/09/2022	ND	2.02	101	2.00	0.360	
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570	
Total BTEX	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.4 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 4. @ 3' (H224109-23)

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	09/09/2022	ND	2.02	101	2.00	0.360	
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570	
Total BTEx	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.8 % 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: 09/07/2022
 Reported: 09/12/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 5. @ SURFACE (H224109-24)

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	09/09/2022	ND	2.02	101	2.00	0.360	
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570	
Total BTEx	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24400	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	33.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.7 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: DFS 5. @ 1' (H224109-25)

BTX 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	09/09/2022	ND	2.02	101	2.00	0.360	
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570	
Total BTX	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.5 % 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: 09/07/2022
 Reported: 09/12/2022
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 5. @ 2' (H224109-26)

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	09/09/2022	ND	2.02	101	2.00	0.360	
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570	
Total BTEX	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.7 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: EWS 1. (H224109-27)

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	09/09/2022	ND	2.02	101	2.00	0.360		
Toluene*	<0.050	0.050	09/09/2022	ND	2.22	111	2.00	0.713		
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	2.20	110	2.00	0.299		
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.91	115	6.00	0.570		
Total BTEx	<0.300	0.300	09/09/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.1 % 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:	09/07/2022	Sampling Date:	09/06/2022
Reported:	09/12/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: NWS 5. (H224109-28)

BTX 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	09/09/2022	ND	2.05	103	2.00	9.30	
Toluene*	<0.050	0.050	09/09/2022	ND	2.06	103	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/09/2022	ND	1.99	99.6	2.00	9.02	
Total Xylenes*	<0.150	0.150	09/09/2022	ND	6.19	103	6.00	8.91	
Total BTX	<0.300	0.300	09/09/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/08/2022	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	09/09/2022	ND	207	103	200	2.59	
DRO >C10-C28*	<10.0	10.0	09/09/2022	ND	219	109	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	09/09/2022	ND					

Surrogate: 1-Chlorooctane 82.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.3 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

(575) 393-2326 FAX (575) 393-2476

Page 31 of 33

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lane Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																			
Address: P.O. Box 301				Company: Mewbourne																							
City: Lovington State: NM Zip: 88260				Attn: Connor Walker																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																							
Project #: 16075 Project Owner:				City:																							
Project Name: TOP Gun Fed SWD #1.				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: Aaron Rios				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING															
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME															
H224109																											
1 DFS 1. @ Surface				X				X				9-6-22															
2 DFS 1. @ 1 Ft																											
3 DFS 1. @ 2 Ft																											
4 DFS 1. @ 3 Ft																											
5 DFS 1. @ 4 Ft																											
6 DFS 1. @ 5 Ft																											
7 DFS 1. @ 6 Ft																											
8 DFS 2. @ Surface																											
9 DFS @ 1. Ft																											
10 DFS @ 2. Ft																											
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Relinquished By:				Date:		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
				Time:						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
										REMARKS:																	
Relinquished By:				Date:		Received By:				Please email results to pm@etechenv.com.																	
Aaron Rios				9-7-22		Laura Dela Cruz																					
				Time:																							
Delivered By: (Circle One)				-3.3°C - 3.9°C				Sample Condition				CHECKED BY:															
Sampler - UPS - Bus - Other:				#113				Cool Intact				(Initials)															
								<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No															



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 32 of 33

Company Name: Etech Environmental & Safety Solutions, Inc.										BILL TO										ANALYSIS REQUEST																							
Project Manager: <i>Janice Crenshaw</i>										P.O. #:										<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
Address: P.O. Box 301										Company: <i>Newbourne</i>																																	
City: Lovington State: NM Zip: 88260										Attn: <i>Connor Walker</i>																																	
Phone #: (575) 396-2378 Fax #: (575) 396-1429										Address:																																	
Project #: <i>16075</i> Project Owner:										City:																																	
Project Name: <i>Top Gun Fed SWD #1</i>										State: Zip:																																	
Project Location:										Phone #:																																	
Sampler Name: <i>Aaron Rios</i>										Fax #:																																	
FOR LAB USE ONLY																																											
Lab I.D.		Sample I.D.								(GRAB OR (C)OMP. # CONTAINERS		MATRIX				PRESERV.		SAMPLING																									
										GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
<i>#224109</i>																																											
<i>11</i>		<i>DFS 2 @ 3 Ft</i>								<i>X</i>				<i>X</i>												<i>9-6-22</i>								<i>X X X</i>									
<i>12</i>		<i>DFS 2 @ 4 Ft</i>																																									
<i>13</i>		<i>DFS 3 @ Surface</i>																																									
<i>14</i>		<i>DFS 3 @ 1 Ft</i>																																									
<i>15</i>		<i>DFS 3 @ 2 Ft</i>																																									
<i>16</i>		<i>DFS 3 @ 3 Ft</i>																																									
<i>17</i>		<i>DFS 3 @ 4 Ft</i>																																									
<i>18</i>		<i>DFS 3 @ 5 Ft</i>																																									
<i>19</i>		<i>DFS 3 @ 6 Ft</i>																																									
<i>20</i>		<i>DFS 4 @ Surface</i>																																									

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 services. 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.

Relinquished By:		Date:		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							
Delivered By: (Circle One)		Date:		Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:		Time:		Cool Intact					
<i>-3.3°/-3.9°</i>		<i>9-7-22</i>		<i>Yes Yes</i>		Please email results to pm@etechenv.com.			
<i>#113</i>		<i>1400</i>		<i>No No</i>					

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 13, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 09/09/22 13:50.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/09/2022	Sampling Date:	09/09/2022
Reported:	09/13/2022	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	** (See Notes)
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: FS 109 @ 3' (H224160-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/13/2022	ND	416	104	400	3.77		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "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

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Cronshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																					
Address: 2617 W Marland				Company: Monbourn																									
City: Hobbs		State: NM		Zip: 88240		Attn: Lance Cronshaw																							
Phone #: (575) 264-9884		Fax #:		Address:																									
Project #: 16075		Project Owner:		City:																									
Project Name: Top Gun Fed SUD #2				State: Zip:																									
Project Location:				Phone #:																									
Sampler Name: David Robinson				Fax #:																									
FOR LAB USE ONLY	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													
H224160		F8 109 at 36			1			X				Y			9-9-22	12:00 pm	X												



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

February 27, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 02/23/23 16:20.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/23/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: DFS 6 @ SURFACE (H230862-01)

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	02/24/2023	ND	2.06	103	2.00	0.379		
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527		
Total BTEX	<0.300	0.300	02/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30800	16.0	02/24/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 6 @ 1' (H230862-02)

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	02/24/2023	ND	2.06	103	2.00	0.379	
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527	
Total BTEx	<0.300	0.300	02/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/24/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 7 @ SURFACE (H230862-03)

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	02/24/2023	ND	2.06	103	2.00	0.379	
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527	
Total BTEX	<0.300	0.300	02/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	02/24/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	237	118	200	19.7	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 7 @ 1' (H230862-04)

BTX 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	02/24/2023	ND	2.06	103	2.00	0.379	
Toluene*	<0.050	0.050	02/24/2023	ND	1.99	99.4	2.00	0.882	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.92	95.9	2.00	0.411	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.87	97.9	6.00	0.527	
Total BTX	<0.300	0.300	02/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/24/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	176	88.2	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	177	88.5	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 7 @ 2' (H230862-05)

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	02/24/2023	ND	2.07	103	2.00	0.0375		
Toluene*	<0.050	0.050	02/24/2023	ND	2.00	99.9	2.00	0.467		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.93	96.3	2.00	0.0880		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.86	97.7	6.00	0.812		
Total BTEX	<0.300	0.300	02/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/24/2023	ND	400	100	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	176	88.2	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	177	88.5	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/23/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD 1	Sampling Condition:	Cool & Intact
Project Number:	16075	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

Sample ID: DFS 8 @ SURFACE (H230862-06)

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	02/24/2023	ND	2.07	103	2.00	0.0375	
Toluene*	<0.050	0.050	02/24/2023	ND	2.00	99.9	2.00	0.467	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.93	96.3	2.00	0.0880	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.86	97.7	6.00	0.812	
Total BTEX	<0.300	0.300	02/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	02/24/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	176	88.2	200	4.17	
DRO >C10-C28*	37.6	10.0	02/24/2023	ND	177	88.5	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 8 @ 1' (H230862-07)

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	02/24/2023	ND	2.07	103	2.00	0.0375		
Toluene*	<0.050	0.050	02/24/2023	ND	2.00	99.9	2.00	0.467		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.93	96.3	2.00	0.0880		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.86	97.7	6.00	0.812		
Total BTEx	<0.300	0.300	02/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	176	88.2	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	177	88.5	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 8 @ 2' (H230862-08)

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	02/24/2023	ND	2.07	103	2.00	0.0375		
Toluene*	<0.050	0.050	02/24/2023	ND	2.00	99.9	2.00	0.467		
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.93	96.3	2.00	0.0880		
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.86	97.7	6.00	0.812		
Total BTEX	<0.300	0.300	02/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	176	88.2	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	177	88.5	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 8 @ 3' (H230862-09)

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	02/24/2023	ND	2.07	103	2.00	0.0375	
Toluene*	<0.050	0.050	02/24/2023	ND	2.00	99.9	2.00	0.467	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.93	96.3	2.00	0.0880	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.86	97.7	6.00	0.812	
Total BTEX	<0.300	0.300	02/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/24/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	176	88.2	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	177	88.5	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 8 @ 4' (H230862-10)

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	02/24/2023	ND	2.07	103	2.00	0.0375	
Toluene*	<0.050	0.050	02/24/2023	ND	2.00	99.9	2.00	0.467	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.93	96.3	2.00	0.0880	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.86	97.7	6.00	0.812	
Total BTEX	<0.300	0.300	02/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/24/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	176	88.2	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	177	88.5	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 9 @ SURFACE (H230862-11)

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	02/24/2023	ND	2.07	103	2.00	0.0375	
Toluene*	<0.050	0.050	02/24/2023	ND	2.00	99.9	2.00	0.467	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.93	96.3	2.00	0.0880	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.86	97.7	6.00	0.812	
Total BTEX	<0.300	0.300	02/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14600	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	176	88.2	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	177	88.5	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 9 @ 1' (H230862-12)

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	02/24/2023	ND	2.07	103	2.00	0.0375	
Toluene*	<0.050	0.050	02/24/2023	ND	2.00	99.9	2.00	0.467	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.93	96.3	2.00	0.0880	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.86	97.7	6.00	0.812	
Total BTEx	<0.300	0.300	02/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	176	88.2	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	177	88.5	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 10 @ SURFACE (H230862-13)

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	02/24/2023	ND	2.07	103	2.00	0.0375	
Toluene*	<0.050	0.050	02/24/2023	ND	2.00	99.9	2.00	0.467	
Ethylbenzene*	<0.050	0.050	02/24/2023	ND	1.93	96.3	2.00	0.0880	
Total Xylenes*	<0.150	0.150	02/24/2023	ND	5.86	97.7	6.00	0.812	
Total BTEX	<0.300	0.300	02/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28800	16.0	02/24/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	176	88.2	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	177	88.5	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 10 @ 1' (H230862-14)

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	02/25/2023	ND	2.07	103	2.00	0.0375		
Toluene*	<0.050	0.050	02/25/2023	ND	2.00	99.9	2.00	0.467		
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	1.93	96.3	2.00	0.0880		
Total Xylenes*	<0.150	0.150	02/25/2023	ND	5.86	97.7	6.00	0.812		
Total BTEX	<0.300	0.300	02/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2360	16.0	02/24/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	176	88.2	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	177	88.5	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 10 @ 2' (H230862-15)

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	02/25/2023	ND	2.07	103	2.00	0.0375	
Toluene*	<0.050	0.050	02/25/2023	ND	2.00	99.9	2.00	0.467	
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	1.93	96.3	2.00	0.0880	
Total Xylenes*	<0.150	0.150	02/25/2023	ND	5.86	97.7	6.00	0.812	
Total BTEX	<0.300	0.300	02/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	02/24/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	176	88.2	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	177	88.5	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 02/23/2023
 Reported: 02/27/2023
 Project Name: TOP GUN FEDERAL SWD 1
 Project Number: 16075
 Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 02/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DFS 10 @ 3' (H230862-16)

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	02/25/2023	ND	2.07	103	2.00	0.0375		
Toluene*	<0.050	0.050	02/25/2023	ND	2.00	99.9	2.00	0.467		
Ethylbenzene*	<0.050	0.050	02/25/2023	ND	1.93	96.3	2.00	0.0880		
Total Xylenes*	<0.150	0.150	02/25/2023	ND	5.86	97.7	6.00	0.812		
Total BTEx	<0.300	0.300	02/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/24/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2023	ND	176	88.2	200	4.17	
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	177	88.5	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

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

1/2

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company:																							
City: Lovington				Attn:																							
Phone #: (575) 396-2378				Address:																							
Project #: 16075				City:																							
Project Owner: Newbourn				State:																							
Project Name: Top Gun Fed SWD #001				Zip:																							
Project Location: Rural Eddy Co., NM				Phone #:																							
Sampler Name: Miguel Ramirez				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													
H230862																											
1	DFS6 @ surface	G	1			X					X		2-29-23	09:00	X	X	X										
2	DFS6 @ 1'	G	1			X					X			09:10	X	X	X										
3	DFS7 @ surface	G	1			X					X			09:20	X	X	X										
4	DFS7 @ 1'	G	1			X					X			09:30	X	X	X										
5	DFS7 @ 2'	G	1			X					X			09:40	X	X	X										
6	DFS8 @ surface	G	1			X					X			09:50	X	X	X										
7	DFS8 @ 1'	G	1			X					X			10:00	X	X	X										
8	DFS8 @ 2'	G	1			X					X			10:20	X	X	X										
9	DFS8 @ 3'	G	1			X					X			11:00	X	X	X										
10	DFS8 @ 4'	G	1			X					X			11:10	X	X	X										

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Relinquished By: Date: 2-23-23 Time: 1620	Received By: Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: Standard
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 0.6c / 0.0c #13		CHECKED BY: (Initials)

Please email results to pm@etechenv.com.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 $\frac{2}{2}$

(575) 393-2326 FAX (575) 393-2476

[illegible]

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Appendix F

Regulatory Correspondence

From: [Bratcher, Mike, EMNRD](#)
To: [Lance Crenshaw](#); [Connor Walker](#); [Ben Arguijo](#)
Cc: [Nobui, Jennifer, EMNRD](#); [Harimon, Jocelyn, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] Confirmation Sampling Notification
Date: Friday, September 16, 2022 3:59:30 PM

Lance,

Please include the date and time for sampling events in order to meet requirements of 19.15.29 NMAC. Also, include a copy of all correspondence in the remediation and/or closure reports to insure notices are included in the project file.

Thanks,

Mike Bratcher • Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 | mike.bratcher@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Friday, September 16, 2022 9:54 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: Fw: [EXTERNAL] Confirmation Sampling Notification

From: Lance Crenshaw <lance@etechnv.com>
Sent: Friday, September 16, 2022 9:16 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Connor Walker <cwalker@mewbourne.com>; Ben Arguijo <bena@etechnv.com>
Subject: [EXTERNAL] Confirmation Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

This email serves as notice that Etech intends to collect excavation confirmation soil samples from the following locations/reportable release sites:

Mewbourne Oil Co – Top Gun SWD– napp2212348289

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email (lance@etechnv.com)

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

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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 230930

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 230930
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Mewbourne's deferral requests deferral of final remediation for Incident Number NAPP2120037259 and NAPP2212348289 until decommissioning and abandonment of the SWD facility. eTECH and Mewbourne do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The areas requested for deferral are the impacted soil around the outside of the tank battery (Figure 3B), which include sample areas (DFS 1 through DFS 10). The areas have been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	11/21/2023