

Incident ID	nAPP2102530060
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: Jacqui Harris Title: Environmental EngineerSignature:  Date: 12/14/21email: jacqui.harris@conocophillips.com Telephone: (575)745-1807**OCD Only**Received by: Chad Hensley Date: 02/14/2022☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral ApprovedSignature:  Date: 02/14/2022

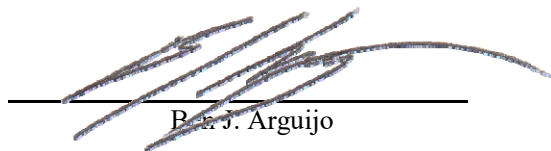
Remediation Summary & Deferral Request

COG Operating, LLC Save DA Federal 1 Tank Battery

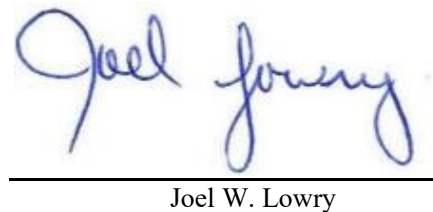
Eddy County, New Mexico
Unit Letter "D", Section 21, Township 25 South, Range 29 East
Latitude 32.12085 North, Longitude 103.99555 West
NMOCD Reference No. nAPP2102530060

Prepared By:

Etech Environmental & Safety Solutions, Inc.
3100 Plains Highway
Lovington, New Mexico 88260



Ben J. Arguijo



Joel W. Lowry



Midland • San Antonio • Lubbock • Lovington • Lafayette

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Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this *Remediation Summary & Deferral Request* for the release site known as the Save DA Federal 1 Tank Battery (henceforth, "Save DA"). Details of the release are summarized below:

Latitude: 32.12085 Longitude: -103.99555
Provided GPS are in WGS84 format.

Site Name: Save DA Federal 1 Tank Battery	Site Type: Tank Battery
Date Release Discovered: 1/6/2021	API # (if applicable): 30-015-34840

Unit Letter	Section	Township	Range	County
"D"	21	25S	29E	Eddy

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 10	Volume Recovered (bbls) 8
	Is the concentration of dissolved chloride 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

A water tank overflowed due to equipment failure. The release was confined to the containment area. A vacuum truck was dispatched to remove all freestanding fluids.

☒ 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 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Save DA release site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on June 18, 2021, an investigative soil boring/temporary monitor well was drilled at the site in an effort to determine if shallow groundwater is present in the area. The soil boring was advanced to a total depth of approximately 105 feet below ground surface (bgs) and left open for over 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring or prior to plugging and abandonment. The location of the investigative soil bore/temporary monitor well is depicted in Figure 2. A drilling log is provided in Appendix B.

What is the shallowest depth to groundwater beneath the area affected by the release?			>105'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" 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 and 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 Save DA release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
>105'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	10,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	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 June 3, 2021, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores (SP1 through SP3) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, hand-augered soil bores (NHS, EHS, SHS, and WHS) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, a total of 14 delineation soil samples (NHS @ 0-6", NHS @ 1', EHS @ 0-6", EHS @ 1', SHS @ 0-6", SHS @ 1', WHS @ 0-6", WHS @ 1', SP 1 @ 0-6", SP 1 @ 1', SP 2 @ 0-6", SP 2 @ 1', SP 3 @ 0-6", and SP 3 @ 1') were submitted to a certified commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of impacted soil was adequately defined. However, additional vertical delineation was required in the areas characterized by sample points SP 1, SP 2, and SP 3.

On June 8, 2021, Etech revisited the release site. During the site visit, a series of test trenches were advanced in the areas characterized by sample points SP 1, SP 2, and SP 3 to further investigate the vertical extent of impacted soil. During the advancement of the test trenches, three (3) soil samples (SP 1 @ 2', SP 2 @ 2', and SP 3 @ 2') were collected and 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 soil was not affected above the NMOCD Closure Criteria beyond two (2) feet bgs in the areas characterized by sample points SP 1, SP 2, and SP 3.

The locations of the hand-augered soil bores and test trenches are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data and soil profile logs are provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the site are provided in Appendix D.

5.0 PROPOSED REMEDIATION PLAN

On June 22, 2021, based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, a *Site Assessment Report, Proposed Remediation Plan & Deferral Request* was submitted to the NMOCD proposing the following remediation activities designed to advance the Save DA release site toward an approved closure:

- Utilizing mechanical equipment and/or hand tools, excavate impacted soil affected above the NMOCD Closure Criteria in the areas characterized by sample points SP 1, SP 2, and SP 3 to an estimated depth of two (2) feet bgs.
- Advance the sidewalls and floor of the excavated area until laboratory analytical results indicate BTEX, TPH, and chloride concentrations are below the NMOCD Closure Criteria, or to the maximum extent practicable.
- Impacted soil affected above the NMOCD Closure Criteria remaining in-situ adjacent to the above ground storage tanks and associated equipment will be remediated upon abandoning and decommissioning the facility.
- Transport excavated soil to an NMOCD-permitted surface waste facility for disposal.
- Upon completion of excavation activities, collect representative five-point composite confirmation soil samples from the excavation sidewalls in each cardinal direction, representing no more than 50 linear feet. Collect a minimum of one (1) representative five-point composite confirmation sample from the base of the excavated area representing every 200 square feet. Collect additional, discrete samples as necessary from wet or visibly stained areas inferred to have been affected by the release.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted, "like" material.
- Upon completion of remediation activities, prepare a *Remediation Summary & Deferral Request* detailing field activities, laboratory analytical results from confirmation soil samples, and a determination of the volume of impacted soil to remain in-situ.

6.0 REMEDIATION ACTIVITIES SUMMARY

On November 5, 2021, remediation activities commenced at the release site. In accordance with the NMOCD-approved *Site Assessment Report, Proposed Remediation Plan & Deferral Request*, impacted soil within the release margins affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria.

On November 9, 2021, Etech collected seven (7) confirmation soil samples (EW 1, EW 2, SW 2, and FL 3 through FL 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL) in each of the submitted soil samples, with the exception of soil sample SW 2, which exhibited a TPH concentration of 10.5 mg/kg. Chloride concentrations ranged from 48.0 mg/kg in soil sample EW 2 to 480 mg/kg in soil sample EW 1.

Etech also advanced one (1) hand-augered soil bore (DEF 1) to further characterize the affected area adjacent to and/or beneath the on-site storage tanks and associated piping, appurtenances, and electrical facilities requiring deferral of remediation. During the advancement of the hand-augered soil bore, two (2) soil samples (DEF 1 @ 0' and DEF 1 @ 4') were collected and field-screened utilizing olfactory/visual senses and/or a chloride test kit. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond four (4) feet bgs in the area characterized by auger hole DEF 1.

On November 10, 2021, Etech collected three (3) confirmation soil samples (WW 1, FL 7 @ 2', and FL 8 @ 4') 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 208 mg/kg in soil sample FL 7 @ 2' to 336 mg/kg in soil sample FL 8 @ 4'.

Etech also advanced one (1) hand-augered soil bore (DEF 3) to further characterize the affected area adjacent to and/or beneath the on-site storage tanks and associated piping, appurtenances, and electrical facilities requiring deferral of remediation. During the advancement of the hand-augered soil bore, two (2) soil samples (DEF 3 @ 0' and DEF 3 @ 4') were collected and field-screened utilizing olfactory/visual senses and/or a chloride test kit. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond four (4) feet bgs in the area characterized by auger hole DEF 3.

On November 11, 2021, Etech collected one (1) confirmation soil sample (NW 1) from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in the soil sample. BTEX and TPH concentrations were also below the applicable laboratory MDL. The chloride concentration was 144 mg/kg.

On November 12, 2021, Etech collected two (2) confirmation soil samples (FL 9 @ 4' and FL 10 @ 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL in each of the submitted soil samples. Chloride concentrations were 256 mg/kg in soil sample FL 9 @ 4' and 272 mg/kg in soil sample FL 10 @ 4'.

On November 15, 2021, Etech collected four (4) confirmation soil samples (SW 1, WW 2, FL 1 @ 6', and FL 2 @ 2') 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 BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and TPH concentrations were also below the laboratory MDL in each of the submitted soil samples, with the exception of soil sample FL 2 @ 2', which exhibited a TPH concentration of 16.9 mg/kg. Chloride concentrations ranged from 96.0 mg/kg in soil sample SW 1 to 800 mg/kg in soil sample FL 1 @ 6'.

Etech also advanced one (1) hand-augered soil bore (DEF 2) to further characterize the affected area adjacent to and/or beneath the on-site storage tanks and associated piping, appurtenances, and electrical facilities requiring deferral of remediation. During the advancement of the hand-augered soil bore, two (2) soil samples (DEF 2 @ 0' and DEF 2 @ 2') were collected and field-screened utilizing olfactory/visual senses and/or a chloride test kit. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond two (2) feet bgs in the area characterized by auger hole DEF 2.

On November 17, 2021, the excavation was further advanced in the areas characterized by soil samples WW 1 and FL 1 @ 6'. Etech collected two (2) confirmation soil samples (WW 1 B and FL 1 @ 10') from the sidewall and floor of the newly excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and TPH concentrations were also below the laboratory MDL in each of the submitted soil samples. Chloride concentrations were 256 mg/kg in soil sample WW 1 B and 464 mg/kg in soil sample FL 1 @ 10'.

The final dimensions of the excavated area were approximately 58 to 87 feet in length, five (5) to 42 feet in width, and two (2) to 10 feet in depth. During the course of remediation activities, approximately 316 cubic yards of impacted soil was transported to an NMOCD-permitted surface waste facility for disposal. Approximately 316 cubic yards of locally sourced, non-impacted material was imported to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data and soil profile logs are provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the site are provided in Appendix D.

7.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

The release was limited to the production pad and containment area of an active tank battery facility. 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 and compacted/contoured to fit the needs of the facility. Final reclamation and re-vegetation will be conducted upon decommission and abandonment of the facility.

8.0 DEFERRAL REQUEST

Remediation activities were conducted in accordance with an NMOCD-approved work plan. Impacted soil affected above the NMOCD Closure Criteria was excavated to the extent practicable and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria. Remediation of impacted soil affected above the NMOCD Closure Criteria remaining in-situ adjacent to and/or beneath the on-site storage tanks and associated pipes, appurtenances, and electrical facilities will be completed upon decommissioning and abandonment of the facility, in accordance with Section 19.15.29.13 NMAC.

Based on laboratory analytical results and field activities conducted to date, Etech recommends COG Operating, LLC, provide copies of this *Remediation Summary & Deferral Request* to the appropriate agencies and cease remediation activities at the Save DA release site.

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 reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

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

10.0 DISTRIBUTION

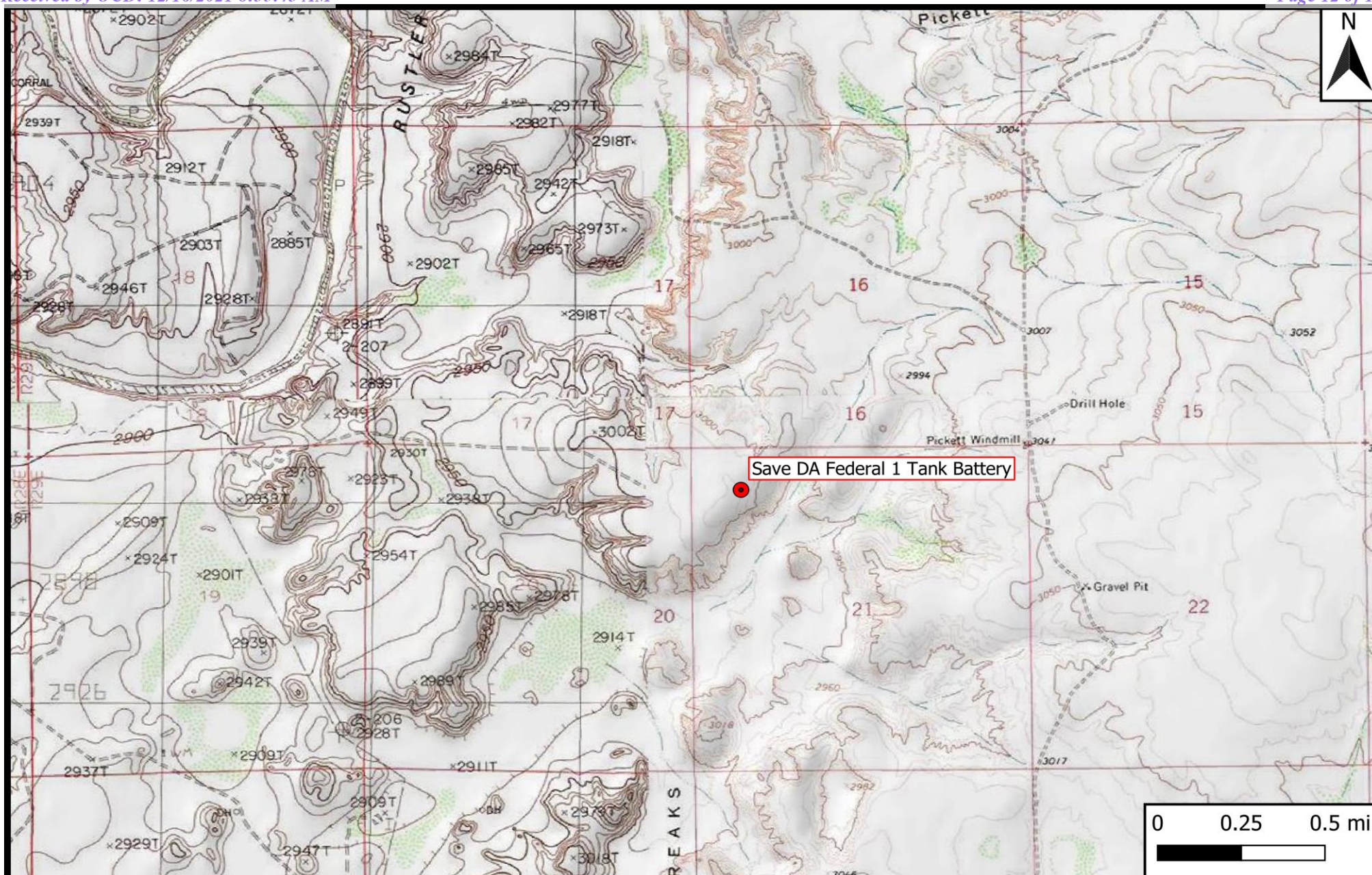
COG Operating, LLC
600 West Illinois Avenue
Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1

Topographic Map
 COG Operating, LLC
 Save DA Federal 1 Tank Battery
 GPS: 32.12085, -103.99555
 Eddy County

eTECH
 Environmental & Safety Solutions, Inc.

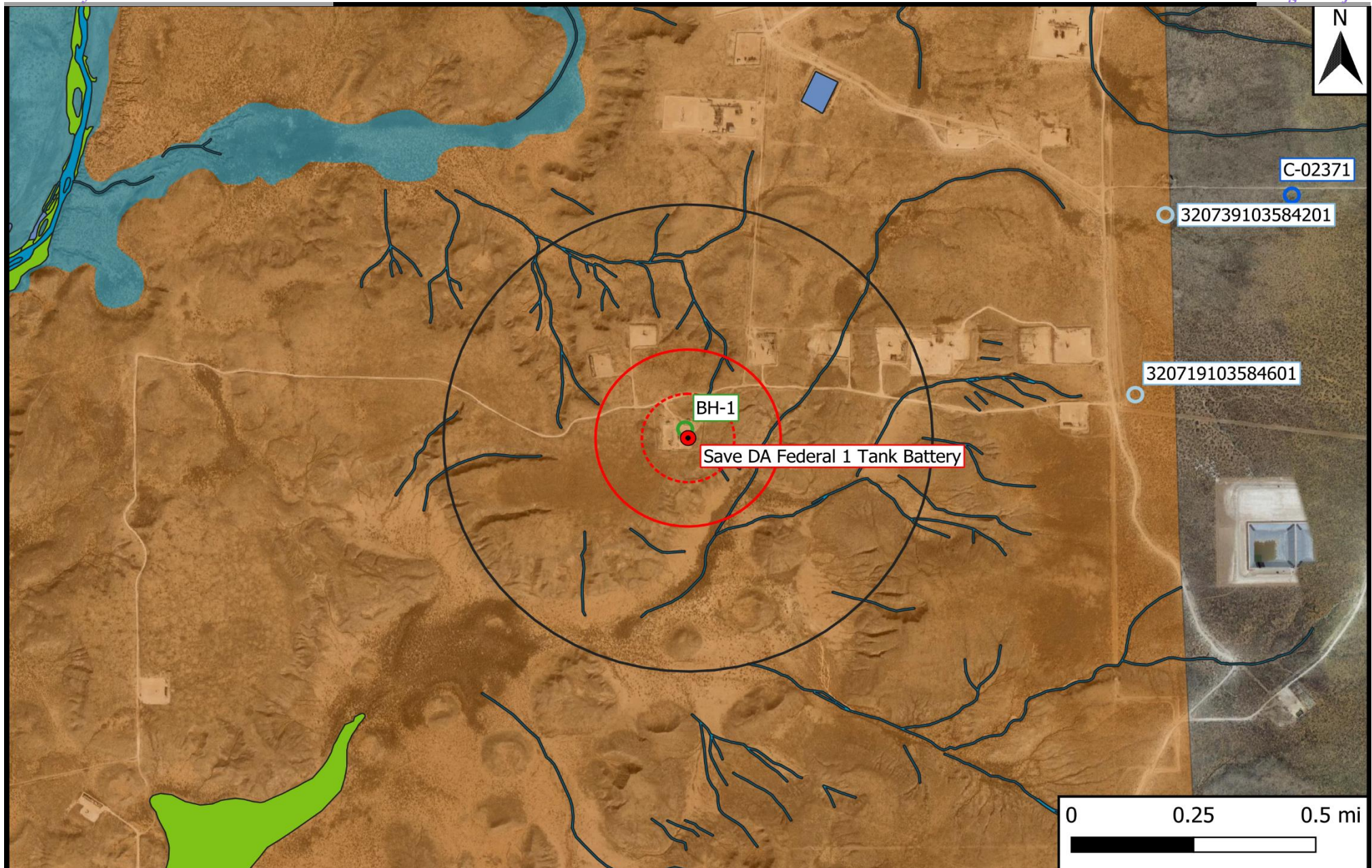
Drafted: bja

Checked: jwl

Date: 12/3/21

Figure 2

Aerial Proximity Map



Legend

- | | | |
|------------------------------|----------------------------|-------------------|
| ● Site Location | 1% Annual Flood Chance | --- 500-Ft Radius |
| ○ Well - NMOSE | Emergent/Forested Wetlands | — 1,000-Ft Radius |
| ○ Well - USGS | Freshwater Pond/Lake | ○ 0.5-Mi Radius |
| ○ Well - Exploratory/Monitor | Medium/High Karst | |
| — Potash Mine Workings | Riverine | |

Figure 2
 Aerial Proximity Map
 COG Operating, LLC
 Save DA Federal 1 Tank Battery
 GPS: 32.12085, -103.99555
 Eddy County

eTECH
 Environmental & Safety Solutions, Inc.

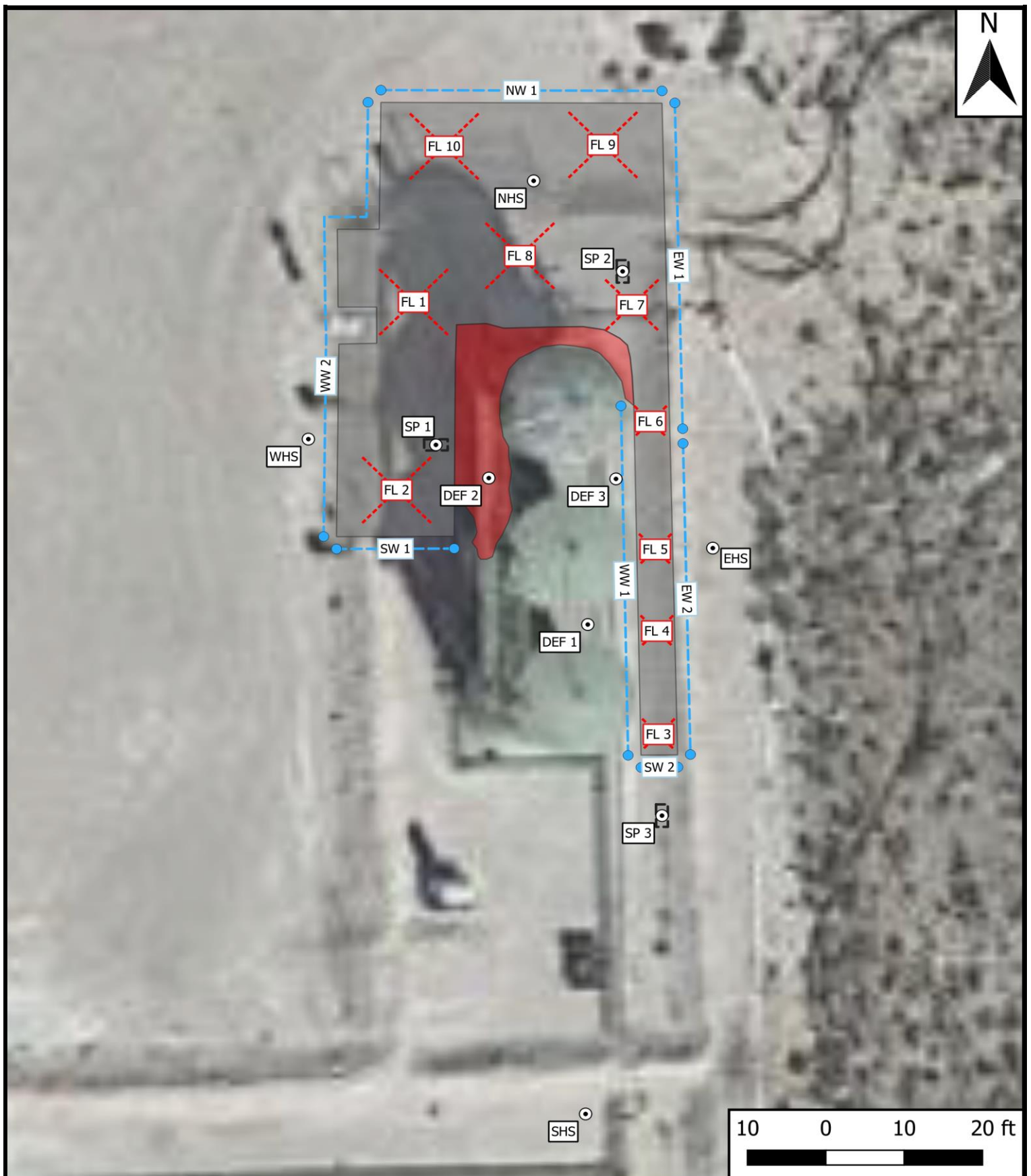
Drafted: bja

Checked: jwl

Date: 12/3/21

Figure 3

Site & Sample Location Map



- Legend**
- Excavation Extent
 - Area to be Deferred ($\approx 335 \text{ ft}^2$)
 - Auger Hole
 - Composite Floor Sample
 - Composite Wall Sample
 - Delineation Trench

Figure 3
 Site & Sample Location Map
 COG Operating, LLC
 Save DA Federal 1 Tank Battery
 GPS: 32.12085, -103.99555
 Eddy County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 12/13/21

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil COG Operating, LLC Save DA Federal 1 Tank Battery NMOCD Ref. #: nAPP2102530060											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Delineation & Deferral Samples											
NHS @ 0-6"	6/3/2021	0 - 0.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
NHS @ 1'	6/3/2021	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EHS @ 0-6"	6/3/2021	0 - 0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
EHS @ 1'	6/3/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SHS @ 0-6"	6/3/2021	0 - 0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
SHS @ 1'	6/3/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WHS @ 0-6"	6/3/2021	0 - 0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
WHS @ 1'	6/3/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SP 1 @ 0-6"	6/3/2021	0 - 0.5	Excavated	<0.050	<0.300	24.3	3,040	3,060	514	3,580	8,800
SP 1 @ 1'	6/3/2021	1	Excavated	<0.050	<0.300	<10.0	217	217	42.2	259	1,800
SP 1 @ 2'	6/8/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
SP 2 @ 0-6"	6/3/2021	0 - 0.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,600
SP 2 @ 1'	6/3/2021	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,680
SP 2 @ 2'	6/8/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SP 3 @ 0-6"	6/3/2021	0 - 0.5	In-Situ	<0.050	<0.300	<10.0	186	186	13.0	199	4,400
SP 3 @ 1'	6/3/2021	1	In-Situ	<0.050	<0.300	<10.0	11.2	11.2	<10.0	11.2	1,140
SP 3 @ 2'	6/8/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
DEF 1 @ 0'	11/9/2021	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,440
DEF 1 @ 4'	11/9/2021	4	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
DEF 2 @ 0'	11/15/2021	0	Deferral	<0.050	<0.300	<10.0	1,240	1,240	550	1,790	36,000
DEF 2 @ 2'	11/15/2021	2	Deferral	<0.050	<0.300	<10.0	40.5	40.5	37.1	77.6	448
DEF 3 @ 0'	11/10/2021	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,400
DEF 3 @ 4'	11/10/2021	4	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
Excavation Samples											
NW 1	11/11/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EW 1	11/9/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
EW 2	11/9/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 1	11/15/2021	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW 2	11/9/2021	0-4	In-Situ	<0.050	<0.300	<10.0	10.5	10.5	<10.0	10.5	160
WW 1	11/10/2021	0-4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
WW 1 B	11/17/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
WW2	11/15/2021	0-10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
FL 1 @ 6'	11/15/2021	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
FL 1 @ 10'	11/17/2021	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL 2 @ 2'	11/15/2021	2	In-Situ	<0.050	<0.300	<10.0	16.9	16.9	<10.0	16.9	480
FL 3	11/9/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 4	11/9/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 5	11/9/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 6	11/9/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 7 @ 2'	11/10/2021	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.

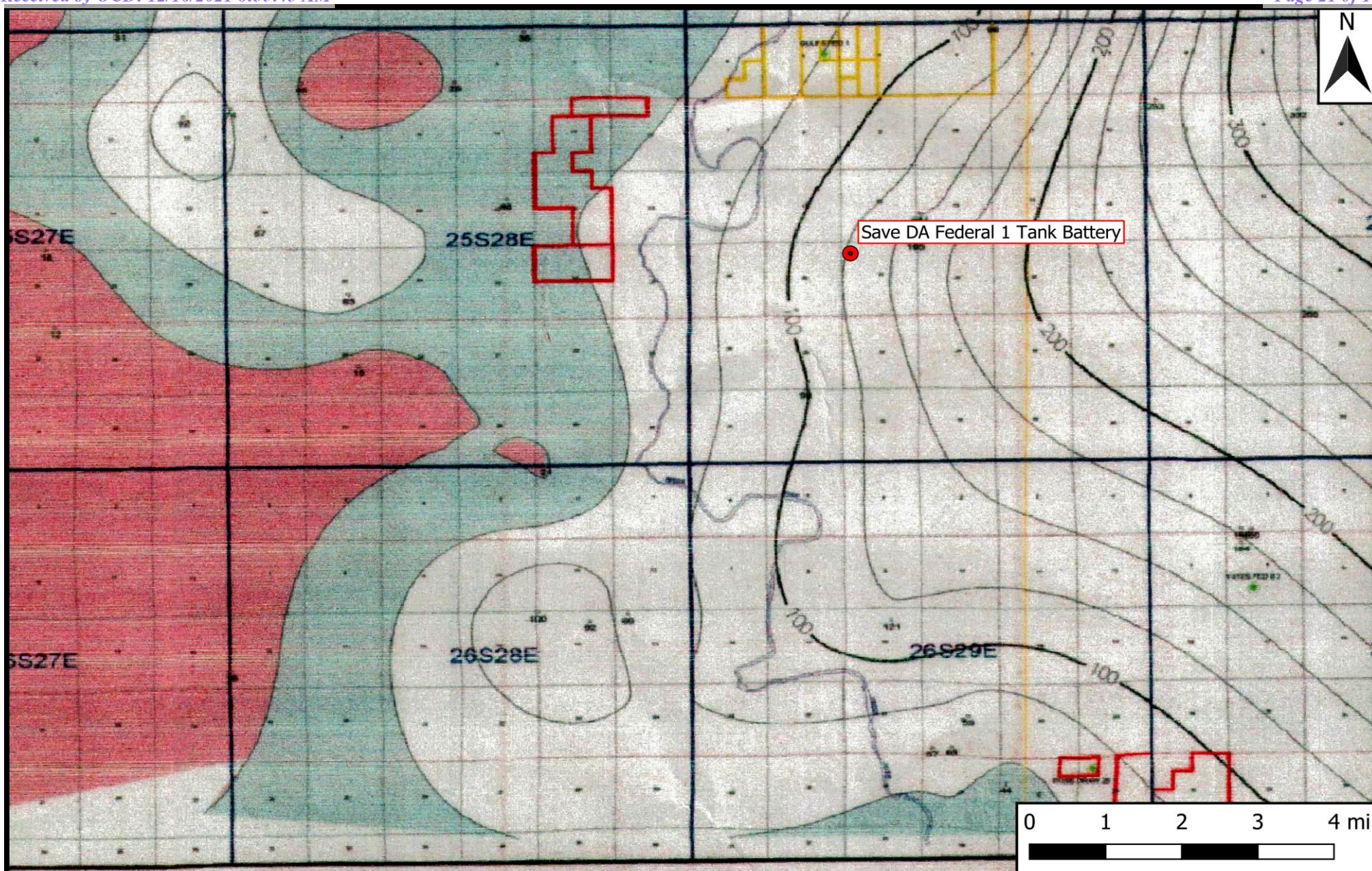
Table 1 Concentrations of BTEX, TPH & Chloride in Soil COG Operating, LLC Save DA Federal 1 Tank Battery NMOCD Ref. #: nAPP2102530060											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 8 @ 4'	11/10/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 9 @ 4'	11/12/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 10 @ 4'	11/12/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272

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
 COG Operating, LLC
 Save DA Federal 1 Tank Battery
 GPS: 32.12085, -103.99555
 Eddy County



Drafted: bja

Checked: jwl

Date: 12/3/21



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 04503 POD1		CUB	ED	4	3	3	09	25S	29E	594884	3556142	1874			
C 02371		C	ED	2	3	15	25S	29E	596741	3555106*		2155	200	60	140
C 02680		CUB	ED	2	3	15	25S	29E	596741	3555106*		2155	200		
C 02518		C	ED	3	4	08	25S	29E	593895	3556300*		2201	462		

Average Depth to Water: **60 feet**

Minimum Depth: **60 feet**

Maximum Depth: **60 feet**

Record Count: 4

UTM NAD83 Radius Search (in meters):

Easting (X): 594753.14

Northing (Y): 3554272.77

Radius: 3220

*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.

6/3/21 8:48 AM


WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02371	2	3	15	25S	29E	596741	3555106*	

x

Driller License: 1259 **Driller Company:** CAMPBELL DRILLING

Driller Name: CAMPBELL, MICHAEL R.

Drill Start Date: 01/12/1995	Drill Finish Date: 01/24/1995	Plug Date:
Log File Date: 02/01/1995	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 20 GPM
Casing Size: 7.00	Depth Well: 200 feet	Depth Water: 60 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	162	200	Sandstone/Gravel/Conglomerate

x

Casing Perforations:	Top	Bottom
	140	200

x

*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.

6/3/21 8:49 AM


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	02518	3	4	08	25S	29E	593895	3556300*	

x

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY" (LD)

Drill Start Date: 06/02/1997 **Drill Finish Date:** 06/02/1997 **Plug Date:**

Log File Date: 06/10/1997 **PCW Rcv Date:** **Source:**

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

Casing Size: **Depth Well:** 462 feet **Depth Water:**

x

*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.

6/3/21 8:49 AM


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 02680	2	3	15	25S	29E	596741	3555106*	

x

Driller License:**Driller Company:****Driller Name:****Drill Start Date:****Drill Finish Date:** 04/30/1964**Plug Date:****Log File Date:****PCW Rcv Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:** 6.00**Depth Well:** 200 feet**Depth Water:**

x

*UTM location was derived from PLSS - see Help

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6/3/21 8:49 AM

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
NA	C 04503 POD1	4	3	3	09	25S	29E	594884	3556142 

x

Driller License: 1249 **Driller Company:** ATKINS ENGINEERING ASSOC. INC.

Driller Name: ATKINS, JACKIE D.UELENER

Drill Start Date: 04/19/2021 **Drill Finish Date:** 04/19/2021 **Plug Date:** 04/27/2021

Log File Date: 05/05/2021 **PCW Rcv Date:** **Source:**

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

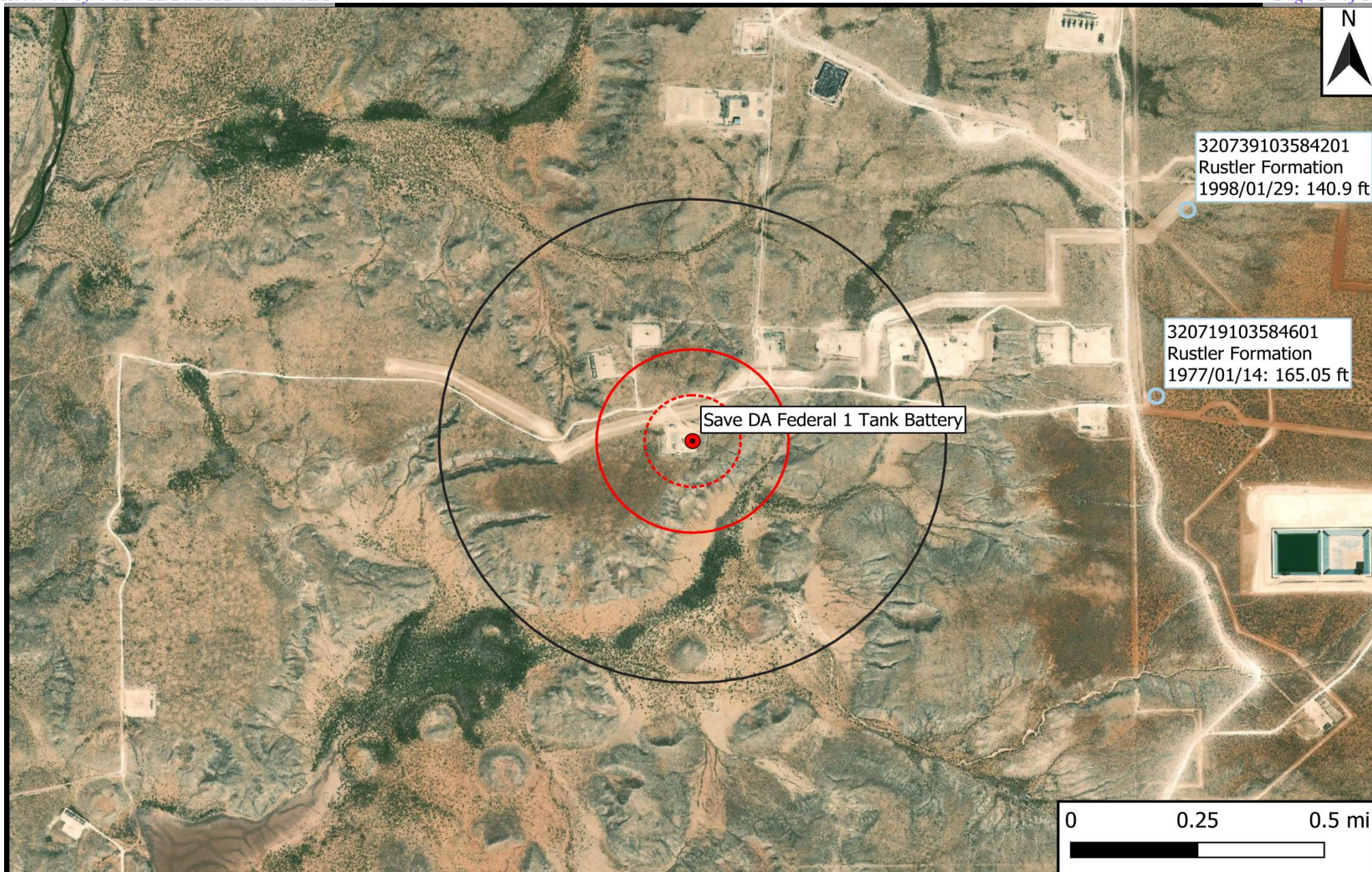
Casing Size: **Depth Well:** **Depth Water:**

x

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.

6/3/21 8:49 AM

POINT OF DIVERSION SUMMARY



Legend

- Site Location
- Well - USGS Wells
- ⊞ 500 Ft Radius
- ⊞ 1000 Ft Radius
- 0.5 Mi Radius

Figure 5

USGS Well Proximity Map
 COG Operating, LLC
 Save DA Federal 1 Tank Battery
 GPS: 32.12085, -103.99555
 Eddy County



Drafted: bja

Checked: jwl

Date: 12/3/21



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Data Category: Geographic Area:

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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320719103584601

Minimum number of levels = 1

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

USGS 320719103584601 25S.29E.16.44444

Eddy County, New Mexico

Latitude 32°07'19", Longitude 103°58'46" NAD27

Land-surface elevation 3,042 feet above NAVD88

The depth of the well is 200 feet below land surface.

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1958-08-19			D	72019	170.14			1	Z		A
1958-10-23			D	72019	170.80			1	Z		A
1975-12-09			D	72019	164.95			1	S		A
1976-01-16			D	72019	167.12			1	S		A
1977-01-14			D	72019	165.05			1	S		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	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

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0.32 0.26 nadww02





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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320739103584201

Minimum number of levels = 1

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

USGS 320739103584201 25S.29E.15.31134

Eddy County, New Mexico

Latitude 32°07'39", Longitude 103°58'42" NAD27

Land-surface elevation 3,017 feet above NAVD88

The depth of the well is 192 feet below land surface.

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1983-02-01			D 72019	140.40			1	Z			A
1987-10-20			D 72019	140.33			1	Z			A
1992-11-06			D 72019	140.81			1	S			A
1998-01-29			D 72019	140.90			1	S			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
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Page Contact Information: [USGS Water Data Support Team](#)

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0.43 0.36 nadww01



Appendix B

Field Data & Soil Profile Logs

Sample Log

Date: 6/3/21

Project: Save DA Federal 1 Tank Battery

Project Number: 14256 Latitude: 32.12085 Longitude: -103.99555

[illegible]

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

Project: SAUC NA Fed 1 + B Date: 10 21
 Project Number: 14 256 Latitude: 32.12085 Longitude: -103.99555

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 3 @ 0'	—	over 3492	
FL 3 @ 4	—	372	
FL 4 @ 0	—	3492	
FL 4 @	—	412	
FL 5 @ 0	—	over 3492	
FL 5 @ 3	—	392	
FL 6 @ 4	—	500	
FL 7 @ 2'	—	372	
FL 8 @ 4	—	548	
FL 10 @ 0	—	over 3492	
FL 9 @ 0	—	2908	
FL 10 @ 4	—	548	
FL 9 @ 4	—	596	
Def 1 @ 0	—	136	
Def 1 @ 4	—	372	
Def 2 @ 0	—	over 3492	
Def 2 @ 4	—	500	
Def 3 @ 0	—	over 3492	
Def 3 @ 4	—	372	
FL 1 @ 10	—	560	
WW 1 B	—	368	
FL 10 @ 0	—	over 3492	
FL 9 @ 0	—	2908	
FL 10 @ 4	—	548	
FL 9 @ 4	—	596	
FL 1 @ 0	—	over 3492	
FL 2 @ 0	—	over 3492	
SW 1	—	328	
FL 2 @ 2	—	560	
Def 2	—	over 3492	
FL 2 @ 4	—	614	
Def 2 @ 2	—	325	
FL 1 @ 6	—	614	
WW 2	—	928	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile


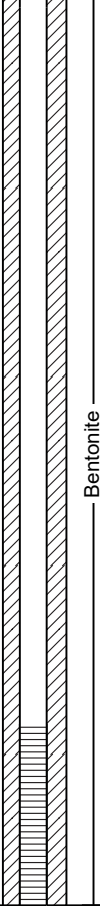



Date: 6/7/21

Project: Save DA Federal 1 Tank Battery
Project Number: 14256 Latitude: 32.12085 Longitude: -103.99555

Depth (ft. bgs)	Description
1	Imported Fill / Caliche
2	Atkati Topsoil
3	Gypsum / Residual Rock
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
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32	
33	
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35	
36	
37	
38	
39	
40	



Soil Boring/Temporary Monitor Well BH-1

Company: COG Operating, LLC Site: Save DA Federal 1 Tank Battery NMOCD Reference #: nAPP2102530060 Location: Eddy Co., NM PLSS: U/L "D", Sec. 21, T25S, R29E			Well/Borehole ID: BH-1 Coordinates (NAD 83): 32.121130,-103.99565 Drilling Date: 6/15/2021 Depth of Boring (ft): 105 Depth to Groundwater (ft): N/A Plugging Date: 6/18/2021			Drilling Company: Scarborough Drilling, Inc. Driller: L. Scarborough Drilling Method: Air Rotary Logged By: L. Scarborough Drafted By: B. Arguijo Draft Date: 12/3/2021		
Completion: N/A			Casing: N/A			Screen: N/A		
Comments: N/A								
Depth (ft)	Groundwater	Lithology	Material Description	Chloride Field Test	Lab Result	PID Reading	Well Construction	
10			Topsoil	-	-	-		Bentonite
20			Caliche	-	-	-		
30			Sand	-	-	-		
40				-	-	-		
50				-	-	-		
60			Red Clay	-	-	-		
70				-	-	-		
80				-	-	-		
90				-	-	-		
100				-	-	-		
110			Notes: • Lines between material types represent approximate boundaries. Actual transitions may be gradual. • The exploratory soil boring was left open for 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring or prior to plugging and abandonment.					
120								
130								
140								

Disclaimer This bore log is intended for environmental not geotechnical purposes.

Appendix C

Laboratory Analytical Reports



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

June 08, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SAVE DA FEDERAL 1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/03/21 16:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	06/03/2021	Sampling Date:	06/03/2021
Reported:	06/08/2021	Sampling Type:	Soil
Project Name:	SAVE DA FEDERAL 1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	14256	Sample Received By:	Tamara Oldaker
Project Location:	COG - 32.12085-103.99555		

Sample ID: NHS @ 0-6" (H211430-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	304	16.0	06/08/2021	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	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					

Surrogate: 1-Chlorooctane 67.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.6 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 06/03/2021
 Reported: 06/08/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NHS @ 1' (H211430-02)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35		
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97		
Total BTEX	<0.300	0.300	06/04/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	06/08/2021	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	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					

Surrogate: 1-Chlorooctane 68.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.0 % 38.9-142

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Analytical Results For:

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Received: 06/03/2021
 Reported: 06/08/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SHS @ 0-6" (H211430-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35		
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97		
Total BTEx	<0.300	0.300	06/04/2021	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	256	16.0	06/08/2021	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	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					

Surrogate: 1-Chlorooctane 73.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.8 % 38.9-142

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Analytical Results For:

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Received: 06/03/2021
 Reported: 06/08/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SHS @ 1' (H211430-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35		
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97		
Total BTEx	<0.300	0.300	06/04/2021	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	112	16.0	06/08/2021	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	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					

Surrogate: 1-Chlorooctane 71.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.1 % 38.9-142

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Analytical Results For:

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Received: 06/03/2021
 Reported: 06/08/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EHS @ 0-6" (H211430-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35		
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97		
Total BTEx	<0.300	0.300	06/04/2021	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	224	16.0	06/08/2021	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	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					

Surrogate: 1-Chlorooctane 73.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.8 % 38.9-142

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Analytical Results For:

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Received: 06/03/2021
 Reported: 06/08/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EHS @ 1' (H211430-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35		
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97		
Total BTX	<0.300	0.300	06/04/2021	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	64.0	16.0	06/08/2021	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	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					

Surrogate: 1-Chlorooctane 74.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.5 % 38.9-142

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Analytical Results For:

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Received: 06/03/2021
 Reported: 06/08/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WHS @ 0-6" (H211430-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35		
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97		
Total BTEX	<0.300	0.300	06/04/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	06/08/2021	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	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					

Surrogate: 1-Chlorooctane 75.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.8 % 38.9-142

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Analytical Results For:

Etech Environmental & Safety Solutions
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Received: 06/03/2021
 Reported: 06/08/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WHS @ 1' (H211430-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35		
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97		
Total BTEx	<0.300	0.300	06/04/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	06/08/2021	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	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					

Surrogate: 1-Chlorooctane 73.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.3 % 38.9-142

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Analytical Results For:

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Received: 06/03/2021
 Reported: 06/08/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 0-6" (H211430-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2021	ND	1.99	99.4	2.00	5.35		
Toluene*	<0.050	0.050	06/07/2021	ND	1.96	98.2	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.89	94.6	2.00	5.65		
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.72	95.3	6.00	4.97		
Total BTEx	<0.300	0.300	06/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	8800	16.0	06/08/2021	ND	416	104	400	3.77		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	24.3	10.0	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	3040	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	514	10.0	06/05/2021	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 143 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	06/03/2021	Sampling Date:	06/03/2021
Reported:	06/08/2021	Sampling Type:	Soil
Project Name:	SAVE DA FEDERAL 1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	14256	Sample Received By:	Tamara Oldaker
Project Location:	COG - 32.12085-103.99555		

Sample ID: SP 1 @ 1' (H211430-10)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35		
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97		
Total BTEx	<0.300	0.300	06/04/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	1800	16.0	06/08/2021	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	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	217	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	42.2	10.0	06/05/2021	ND					

Surrogate: 1-Chlorooctane 74.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 06/03/2021
 Reported: 06/08/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 0-6" (H211430-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35		
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97		
Total BTEX	<0.300	0.300	06/04/2021	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	2600	16.0	06/08/2021	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	06/04/2021	ND	196	98.2	200	1.10	
DRO >C10-C28*	<10.0	10.0	06/04/2021	ND	203	102	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					

Surrogate: 1-Chlorooctane 73.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.5 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 06/03/2021
 Reported: 06/08/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 1' (H211430-12)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35		
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97		
Total BTEx	<0.300	0.300	06/04/2021	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	2680	16.0	06/08/2021	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	06/04/2021	ND	196	98.2	200	1.10	
DRO >C10-C28*	<10.0	10.0	06/04/2021	ND	203	102	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					

Surrogate: 1-Chlorooctane 78.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.6 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 06/03/2021
 Reported: 06/08/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 0-6" (H211430-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35		
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97		
Total BTEx	<0.300	0.300	06/04/2021	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	4400	16.0	06/08/2021	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	06/04/2021	ND	196	98.2	200	1.10	
DRO >C10-C28*	186	10.0	06/04/2021	ND	203	102	200	1.25	
EXT DRO >C28-C36	13.0	10.0	06/04/2021	ND					

Surrogate: 1-Chlorooctane 60.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.0 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 06/03/2021
 Reported: 06/08/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 1' (H211430-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35		
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97		
Total BTEx	<0.300	0.300	06/04/2021	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	1140	16.0	06/08/2021	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	06/04/2021	ND	196	98.2	200	1.10	
DRO >C10-C28*	11.2	10.0	06/04/2021	ND	203	102	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					

Surrogate: 1-Chlorooctane 75.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.9 % 38.9-142

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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.
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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 17 of 18

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: COG																							
City: Lovington State: NM Zip: 88260				Attn:																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																							
Project #: 14256 Project Owner: COG				City:																							
Project Name: Save DA Federal 1 Tank Battery				State: Zip:																							
Project Location: 12.12085, -103.99555				Phone #:																							
Sampler Name: Leonel Mojica				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													
H211430																											
1	NHS @ 0'-6"	G	1			x				x			6/3/21		x	x	x										
2	NHS @ 1'	G	1			x				x			6/3/21		x	x	x										
3	SHS @ 0'-6"	G	1			x				x			6/3/21		x	x	x										
4	SHS @ 1'	G	1			x				x			6/3/21		x	x	x										
5	EHS @ 0'-6"	G	1			x				x			6/3/21		x	x	x										
6	EHS @ 1'	G	1			x				x			6/3/21		x	x	x										
7	NHS @ 0'-6"	G	1			x				x			6/3/21		x	x	x										
8	NHS @ 1'	G	1			x				x			6/3/21		x	x	x										
9	SP 1 @ 0'-6"	G	1			x				x			6/3/21		x	x	x										
10	SP 1 @ 1'	G	1			x				x			6/3/21		x	x	x										
<p><small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>																											
Relinquished By:		Date: 6/3/21		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																			
Leonel Mojica		Time: 1653		Tamara Aldridge		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																			
Relinquished By:		Date:		Received By:		REMARKS:																					
		Time:																									
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.															
Sampler - UPS - Bus - Other: 5.9c #113				Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				J.O.																			

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

Page 18 of 18

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

June 09, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SAVE DA FEDERAL 1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/08/21 14:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	06/08/2021	Sampling Date:	06/08/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	SAVE DA FEDERAL 1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	14256	Sample Received By:	Jodi Henson
Project Location:	COG - 32.12085-103.99555		

Sample ID: SP 1 @ 2' (H211476-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.97	98.6	2.00	0.640	
Toluene*	<0.050	0.050	06/08/2021	ND	2.09	105	2.00	0.110	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.250	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.20	103	6.00	0.637	
Total BTX	<0.300	0.300	06/08/2021	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	368	16.0	06/09/2021	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	06/09/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/09/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/09/2021	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 06/08/2021
 Reported: 06/09/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2' (H211476-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.97	98.6	2.00	0.640	
Toluene*	<0.050	0.050	06/08/2021	ND	2.09	105	2.00	0.110	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.250	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.20	103	6.00	0.637	
Total BTEx	<0.300	0.300	06/08/2021	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	176	16.0	06/09/2021	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	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.3 % 38.9-142

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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
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 06/08/2021
 Reported: 06/09/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 06/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 2' (H211476-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2021	ND	1.97	98.6	2.00	0.640		
Toluene*	<0.050	0.050	06/08/2021	ND	2.09	105	2.00	0.110		
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.250		
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.20	103	6.00	0.637		
Total BTEx	<0.300	0.300	06/08/2021	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	320	16.0	06/09/2021	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	06/09/2021	ND	190	95.1	200	0.599	
DRO >C10-C28*	<10.0	10.0	06/09/2021	ND	193	96.3	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	06/09/2021	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.1 % 38.9-142

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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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*=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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

November 11, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SAVE DA FEDERAL 1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/10/21 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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: 11/10/2021
 Reported: 11/11/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF 1 @ 0' (H213194-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.12	106	2.00	0.652	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.03	101	2.00	1.30	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.22	104	6.00	0.610	
Total BTEX	<0.300	0.300	11/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	1440	16.0	11/10/2021	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	11/11/2021	ND	223	111	200	1.89	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	212	106	200	0.995	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.3 % 38.9-142

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: 11/10/2021
 Reported: 11/11/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF 1 @ 4' (H213194-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2021	ND	2.12	106	2.00	0.652		
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	1.38		
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.03	101	2.00	1.30		
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.22	104	6.00	0.610		
Total BTEx	<0.300	0.300	11/10/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	11/10/2021	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	11/11/2021	ND	223	111	200	1.89	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	212	106	200	0.995	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.6 % 38.9-142

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*=Accredited Analyte

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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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1081

~~Page 5 of 5~~[illegible]



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

November 11, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SAVE DA FEDERAL 1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/10/21 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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: 11/10/2021
 Reported: 11/11/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 3 (H213195-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.12	106	2.00	0.652	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.03	101	2.00	1.30	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.22	104	6.00	0.610	
Total BTX	<0.300	0.300	11/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	11/11/2021	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	11/11/2021	ND	223	111	200	1.89	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	212	106	200	0.995	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.8 % 38.9-142

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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: 11/10/2021
 Reported: 11/11/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 4 (H213195-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.12	106	2.00	0.652	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.03	101	2.00	1.30	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.22	104	6.00	0.610	
Total BTEx	<0.300	0.300	11/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	128	16.0	11/11/2021	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	11/11/2021	ND	223	111	200	1.89	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	212	106	200	0.995	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 73.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.1 % 38.9-142

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: 11/10/2021
 Reported: 11/11/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 5 (H213195-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.12	106	2.00	0.652	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.03	101	2.00	1.30	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.22	104	6.00	0.610	
Total BTX	<0.300	0.300	11/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	11/11/2021	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	11/11/2021	ND	223	111	200	1.89	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	212	106	200	0.995	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.2 % 38.9-142

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: 11/10/2021
 Reported: 11/11/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 6 (H213195-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.12	106	2.00	0.652	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.03	101	2.00	1.30	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.22	104	6.00	0.610	
Total BTEx	<0.300	0.300	11/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 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	11/11/2021	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	11/11/2021	ND	223	111	200	1.89	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	212	106	200	0.995	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.5 % 38.9-142

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: 11/10/2021
 Reported: 11/11/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 2 (H213195-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.12	106	2.00	0.652	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.03	101	2.00	1.30	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.22	104	6.00	0.610	
Total BTEX	<0.300	0.300	11/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	11/11/2021	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	11/11/2021	ND	223	111	200	1.89	
DRO >C10-C28*	10.5	10.0	11/11/2021	ND	212	106	200	0.995	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 78.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.2 % 38.9-142

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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: 11/10/2021
 Reported: 11/11/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 1 (H213195-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.12	106	2.00	0.652	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.03	101	2.00	1.30	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.22	104	6.00	0.610	
Total BTEX	<0.300	0.300	11/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	11/11/2021	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	11/11/2021	ND	223	111	200	1.89	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	212	106	200	0.995	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.2 % 38.9-142

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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: 11/10/2021
 Reported: 11/11/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/09/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 2 (H213195-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2021	ND	2.12	106	2.00	0.652		
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	1.38		
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.03	101	2.00	1.30		
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.22	104	6.00	0.610		
Total BTEx	<0.300	0.300	11/10/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	48.0	16.0	11/11/2021	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	11/11/2021	ND	223	111	200	1.89	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	212	106	200	0.995	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.3 % 38.9-142

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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 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

1081

Page 10 of 10

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager:

Address: 2617 West Marland

City: Hobbs State: NM Zip: 88240

Phone #: (575) 264-9884 Fax #:

Project #: 14256 Project Owner: COG

Project Name: Sque DA Fed 1 TB

Project Location: Rural Eddy

Sampler Name: Dominic C.

BILL TO

P.O. #:

Company COG

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Chloride

TPH (8015M)

BTEX (8021B)

FOR LAB USE ONLY

Lab I.D. H213195

Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

MATRIX

PRESERV.

SAMPLING

DATE

TIME

1 FL3

2 FL4

3 FL5

4 FL6

5 SW2

6 EW1

7 EW2

11/9/21

11/9/21

9:30pm

11-10-21

1000

0.2% C-0.5%

-0.3% #13

Sample Condition

Cool Intact

Yes No

Yes No

CHECKED BY:

(Initials)

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Phone Result:

Fax Result:

REMARKS:

Add'l Phone #:

Add'l Fax #:

Please email copy of COC and results to pm@etechenv.com.



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

November 12, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SAVE DA FEDERAL 1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/11/21 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 11/11/2021
 Reported: 11/12/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF 3 @ 0' (H213206-01)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2021	ND	2.05	102	2.00	0.211		
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	4.11		
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.94	97.1	2.00	5.64		
Total Xylenes*	<0.150	0.150	11/11/2021	ND	5.97	99.6	6.00	4.25		
Total BTX	<0.300	0.300	11/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	4400	16.0	11/11/2021	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	202	101	200	3.78	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	215	108	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.7 % 38.9-142

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: 11/11/2021
 Reported: 11/12/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF 3 @ 4' (H213206-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2021	ND	2.05	102	2.00	0.211		
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	4.11		
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.94	97.1	2.00	5.64		
Total Xylenes*	<0.150	0.150	11/11/2021	ND	5.97	99.6	6.00	4.25		
Total BTEx	<0.300	0.300	11/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	11/11/2021	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	202	101	200	3.78	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	215	108	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 81.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.6 % 38.9-142

Cardinal Laboratories

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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



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

November 12, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SAVE DA FEDERAL 1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/11/21 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 11/11/2021
 Reported: 11/12/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 7 @ 2' (H213207-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2021	ND	2.05	102	2.00	0.211		
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	4.11		
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.94	97.1	2.00	5.64		
Total Xylenes*	<0.150	0.150	11/11/2021	ND	5.97	99.6	6.00	4.25		
Total BTEX	<0.300	0.300	11/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	11/11/2021	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	202	101	200	3.78	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	215	108	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.0 % 38.9-142

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: 11/11/2021
 Reported: 11/12/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 8 @ 4' (H213207-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2021	ND	2.05	102	2.00	0.211	
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	4.11	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.94	97.1	2.00	5.64	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	5.97	99.6	6.00	4.25	
Total BTEX	<0.300	0.300	11/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	11/11/2021	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	202	101	200	3.78	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	215	108	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.1 % 38.9-142

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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: 11/11/2021
 Reported: 11/12/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 1 (H213207-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2021	ND	2.05	102	2.00	0.211	
Toluene*	<0.050	0.050	11/11/2021	ND	1.98	99.0	2.00	4.11	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.94	97.1	2.00	5.64	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	5.97	99.6	6.00	4.25	
Total BTEx	<0.300	0.300	11/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	11/11/2021	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	202	101	200	3.78	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	215	108	200	4.98	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.5 % 38.9-142

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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 black ink, appearing to read "Celey D. Keene", is 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 of 1

Page 6 of 6

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 14254 Project Owner: COG Project Name: Save DA Fed 1 TB Project Location: Rural Eddy Sampler Name: Munnica Casarez				BILL TO P.O. #: Company: COG Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST															
FOR LAB USE ONLY Lab I.D. H213207		Sample I.D. 1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		(G)RAB OR (C)OMP. C C C	# CONTAINERS 1 1 1	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV. ACID/BASE: ICE / COOL OTHER:	SAMPLING DATE 11/10/21 11/10/21 11/10/21	TIME 	Chloride TPH (8015M) BTEX (8021B)													
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10/21 11/10/21		X X X	X X X												
H213207		1 FL7 @ 2' 2 FL8 @ 4' 3 WW1		C C C	1 1 1	✓ ✓ ✓	✓ ✓ ✓	11/10/21 11/10															



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

November 15, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SAVE DA FEDERAL 1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/12/21 9:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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: 11/12/2021
 Reported: 11/15/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/11/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 1 (H213231-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81	
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45	
Total BTEX	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	144	16.0	11/12/2021	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	218	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	213	106	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 90.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.7 % 38.9-142

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

Released to Imaging: 2/14/2022 2:08:23 PM



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

November 16, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SAVE DA FEDERAL 1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/15/21 9:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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: 11/15/2021
 Reported: 11/16/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 9 @ 4' (H213243-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2021	ND	2.01	100	2.00	5.38		
Toluene*	<0.050	0.050	11/15/2021	ND	1.91	95.5	2.00	5.76		
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	1.89	94.7	2.00	5.33		
Total Xylenes*	<0.150	0.150	11/15/2021	ND	5.80	96.6	6.00	4.36		
Total BTEX	<0.300	0.300	11/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	11/15/2021	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	11/16/2021	ND	205	102	200	0.886	
DRO >C10-C28*	<10.0	10.0	11/16/2021	ND	204	102	200	2.64	
EXT DRO >C28-C36	<10.0	10.0	11/16/2021	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.9 % 38.9-142

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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 11/15/2021
 Reported: 11/16/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 10 @ 4' (H213243-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2021	ND	2.01	100	2.00	5.38	
Toluene*	<0.050	0.050	11/15/2021	ND	1.91	95.5	2.00	5.76	
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	1.89	94.7	2.00	5.33	
Total Xylenes*	<0.150	0.150	11/15/2021	ND	5.80	96.6	6.00	4.36	
Total BTEX	<0.300	0.300	11/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	272	16.0	11/15/2021	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	11/16/2021	ND	205	102	200	0.886	
DRO >C10-C28*	<10.0	10.0	11/16/2021	ND	204	102	200	2.64	
EXT DRO >C28-C36	<10.0	10.0	11/16/2021	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.6 % 38.9-142

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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*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 2/14/2022 2:08:23 PM



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

November 17, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SAVE DA FEDERAL 1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/16/21 8:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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: 11/16/2021
 Reported: 11/17/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF 2 @ 0' (H213257-01)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2021	ND	1.95	97.6	2.00	4.57		
Toluene*	<0.050	0.050	11/16/2021	ND	1.94	97.1	2.00	6.55		
Ethylbenzene*	<0.050	0.050	11/16/2021	ND	1.91	95.5	2.00	7.18		
Total Xylenes*	<0.150	0.150	11/16/2021	ND	5.90	98.4	6.00	6.15		
Total BTEx	<0.300	0.300	11/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	36000	16.0	11/16/2021	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	11/16/2021	ND	198	99.0	200	1.07	
DRO >C10-C28*	1240	10.0	11/16/2021	ND	204	102	200	4.20	
EXT DRO >C28-C36	550	10.0	11/16/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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: 11/16/2021
 Reported: 11/17/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DEF 2 @ 2' (H213257-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2021	ND	1.95	97.6	2.00	4.57	
Toluene*	<0.050	0.050	11/16/2021	ND	1.94	97.1	2.00	6.55	
Ethylbenzene*	<0.050	0.050	11/16/2021	ND	1.91	95.5	2.00	7.18	
Total Xylenes*	<0.150	0.150	11/16/2021	ND	5.90	98.4	6.00	6.15	
Total BTX	<0.300	0.300	11/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	11/16/2021	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	11/16/2021	ND	198	99.0	200	1.07	
DRO >C10-C28*	40.5	10.0	11/16/2021	ND	204	102	200	4.20	
EXT DRO >C28-C36	37.1	10.0	11/16/2021	ND					

Surrogate: 1-Chlorooctane 94.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.8 % 38.9-142

Cardinal Laboratories

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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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 14256 Project Owner: COG Project Name: Saye Of Fed 1 TB Project Location: Rural Eddy Sampler Name: Dan McCasaree				BILL TO P.O. #: Company: COG Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST											
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING		Chloride		TPH (8015M)		BTEX (8021B)			
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					
H213257	DEF 2 @ 0'	C	1										11/15/21		X	X	X		
2	DEF 2 @ 2'	C	1										11/15/21		X	X	X		
<div style="transform: rotate(-45deg);"> KAP 11/16/21 </div>																			
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																			
Relinquished By: Dan Casaree		Date: 11/15/21 Time: 4:30pm		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:		REMARKS: Rush!					
Relinquished By: [Signature]		Date: 11-16-21 Time: 2:35		Received By: Tamara Oldaker		Please email copy of COC and results to pm@etechenv.com.													
Delivered By: (Circle One) -4.1c		C-0.5c		Sample Condition								CHECKED BY: (Initials)							
Sampler - UPS - Bus - Other:		-4.6c #113		Cool Intact		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>											



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

November 17, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SAVE DA FEDERAL 1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/16/21 8:35.

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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.

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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: 11/16/2021
 Reported: 11/17/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 1 @ 6' (H213258-01)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2021	ND	1.95	97.6	2.00	4.57		
Toluene*	<0.050	0.050	11/16/2021	ND	1.94	97.1	2.00	6.55		
Ethylbenzene*	<0.050	0.050	11/16/2021	ND	1.91	95.5	2.00	7.18		
Total Xylenes*	<0.150	0.150	11/16/2021	ND	5.90	98.4	6.00	6.15		
Total BTEx	<0.300	0.300	11/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	800	16.0	11/16/2021	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	11/16/2021	ND	198	99.0	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/16/2021	ND	204	102	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	11/16/2021	ND					

Surrogate: 1-Chlorooctane 88.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.6 % 38.9-142

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: 11/16/2021
 Reported: 11/17/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 2 @ 2' (H213258-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2021	ND	1.95	97.6	2.00	4.57	
Toluene*	<0.050	0.050	11/16/2021	ND	1.94	97.1	2.00	6.55	
Ethylbenzene*	<0.050	0.050	11/16/2021	ND	1.91	95.5	2.00	7.18	
Total Xylenes*	<0.150	0.150	11/16/2021	ND	5.90	98.4	6.00	6.15	
Total BTEX	<0.300	0.300	11/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	480	16.0	11/16/2021	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	11/16/2021	ND	198	99.0	200	1.07	
DRO >C10-C28*	16.9	10.0	11/16/2021	ND	204	102	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	11/16/2021	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.9 % 38.9-142

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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: 11/16/2021
 Reported: 11/17/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW1 (H213258-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2021	ND	1.95	97.6	2.00	4.57	
Toluene*	<0.050	0.050	11/16/2021	ND	1.94	97.1	2.00	6.55	
Ethylbenzene*	<0.050	0.050	11/16/2021	ND	1.91	95.5	2.00	7.18	
Total Xylenes*	<0.150	0.150	11/16/2021	ND	5.90	98.4	6.00	6.15	
Total BTEX	<0.300	0.300	11/16/2021	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	96.0	16.0	11/16/2021	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	11/16/2021	ND	198	99.0	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/16/2021	ND	204	102	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	11/16/2021	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.2 % 38.9-142

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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: 11/16/2021
 Reported: 11/17/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/15/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW2 (H213258-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2021	ND	1.95	97.6	2.00	4.57	
Toluene*	<0.050	0.050	11/16/2021	ND	1.94	97.1	2.00	6.55	
Ethylbenzene*	<0.050	0.050	11/16/2021	ND	1.91	95.5	2.00	7.18	
Total Xylenes*	<0.150	0.150	11/16/2021	ND	5.90	98.4	6.00	6.15	
Total BTX	<0.300	0.300	11/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	736	16.0	11/16/2021	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	11/16/2021	ND	198	99.0	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/16/2021	ND	204	102	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	11/16/2021	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.5 % 38.9-142

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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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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES


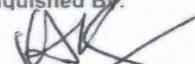

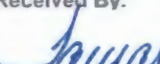
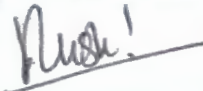
101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Page 7 of 7

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 14256 Project Owner: COG Project Name: Save SA Fed 1 TB Project Location: Rural Eddy Sampler Name: Dominic Casarez				BILL TO				ANALYSIS REQUEST																				
				P.O. #: Company: COG Attn: Address: City: State: Zip: Phone #: Fax #:				<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>																				
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
H213258		FL1 @ 6'		C	1															✓				✓	✓	✓	11/15/21	
2		FL2 @ 2'		C	1			✓				✓	✓	✓	↓		↓	↓										
3		SW1		C	1			✓				✓	✓	✓	↓		↓	↓										
4		NW2		C	1			✓				✓	✓	✓	↓		↓	↓										
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Relinquished By:  Relinquished By:  Delivered By: (Circle One) -4.6°C C-0.5°C Sampler - UPS - Bus - Other: -4.6°C #113				Date: 11/15/21 Time: 4:30pm Date: 11-16-21 Time: 0835 Received By:  Received By: 				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:  Please email copy of COC and results to pm@etechenv.com.				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				CHECKED BY: (Initials) TO												



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

November 18, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SAVE DA FEDERAL 1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/17/21 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 11/17/2021
 Reported: 11/18/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/17/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: FL 1 @ 10' (H213302-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2021	ND	2.17	109	2.00	5.81	
Toluene*	<0.050	0.050	11/18/2021	ND	2.08	104	2.00	5.44	
Ethylbenzene*	<0.050	0.050	11/18/2021	ND	2.06	103	2.00	6.17	
Total Xylenes*	<0.150	0.150	11/18/2021	ND	6.23	104	6.00	6.46	
Total BTX	<0.300	0.300	11/18/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	464	16.0	11/18/2021	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	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					

Surrogate: 1-Chlorooctane 70.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.3 % 38.9-142

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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: 11/17/2021
 Reported: 11/18/2021
 Project Name: SAVE DA FEDERAL 1 TANK BATTERY
 Project Number: 14256
 Project Location: COG - 32.12085-103.99555

Sampling Date: 11/17/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: WW 1 B (H213302-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2021	ND	2.17	109	2.00	5.81	
Toluene*	<0.050	0.050	11/18/2021	ND	2.08	104	2.00	5.44	
Ethylbenzene*	<0.050	0.050	11/18/2021	ND	2.06	103	2.00	6.17	
Total Xylenes*	<0.150	0.150	11/18/2021	ND	6.23	104	6.00	6.46	
Total BTX	<0.300	0.300	11/18/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	11/18/2021	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	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					

Surrogate: 1-Chlorooctane 73.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.6 % 38.9-142

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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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

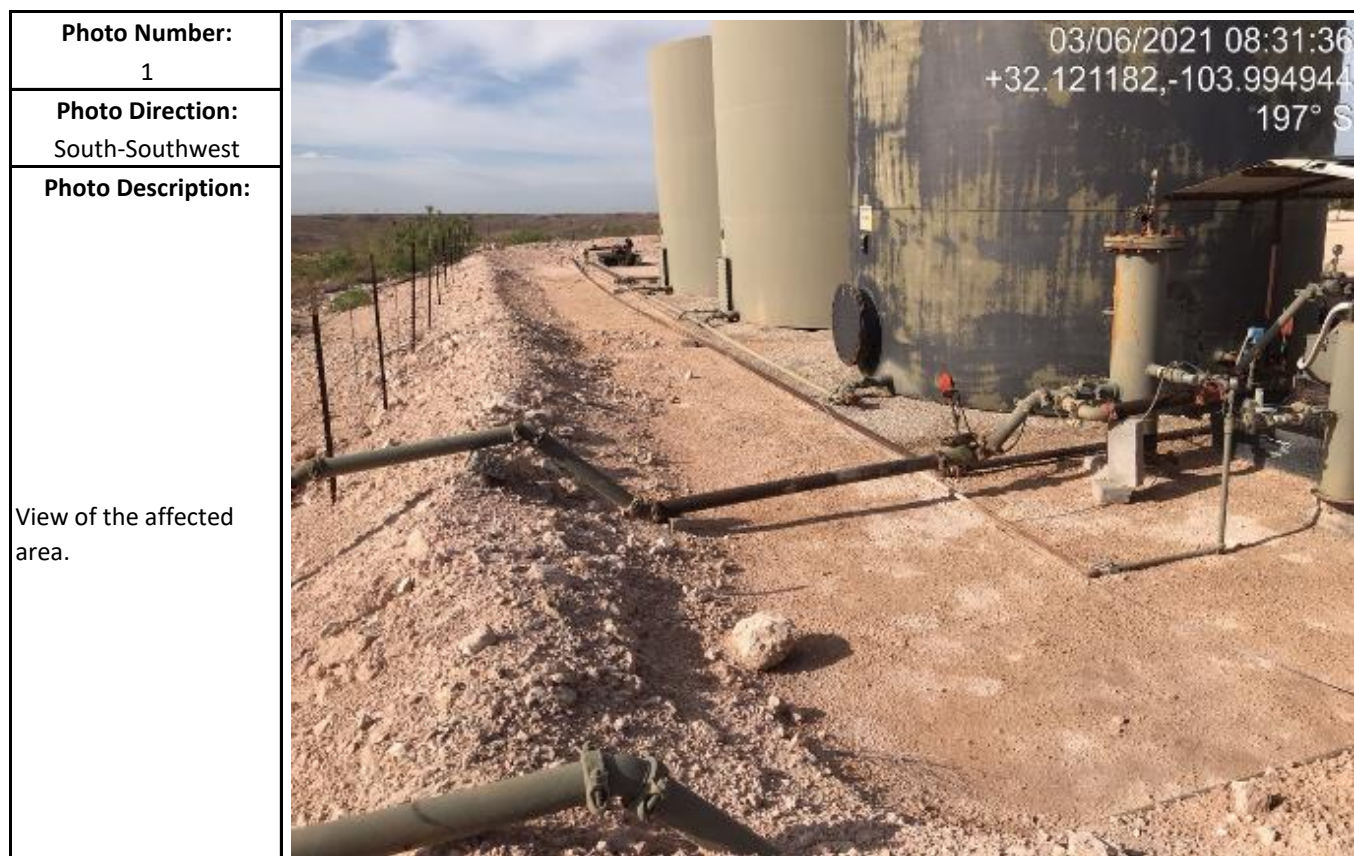
Page 5 of 5

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>Joel</u>				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: <u>COG</u>																							
City: Lovington		State: NM		Zip: 88260		Attn:																					
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																							
Project #: <u>14256</u>		Project Owner: <u>COG</u>		City:																							
Project Name: <u>Save DA Fed 1 + B</u>				State:		Zip:																					
Project Location: <u>Rural Eddy</u>				Phone #:																							
Sampler Name: <u>Dominic C</u>				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	
<u>H213302</u>		<u>FLI @ 10</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>11/17</u>		<u>4:35</u>	
<u>2</u>		<u>WWI B</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>/</u>		<u>11/17</u>		<u>4:35</u>	

Appendix D

Photographic Log

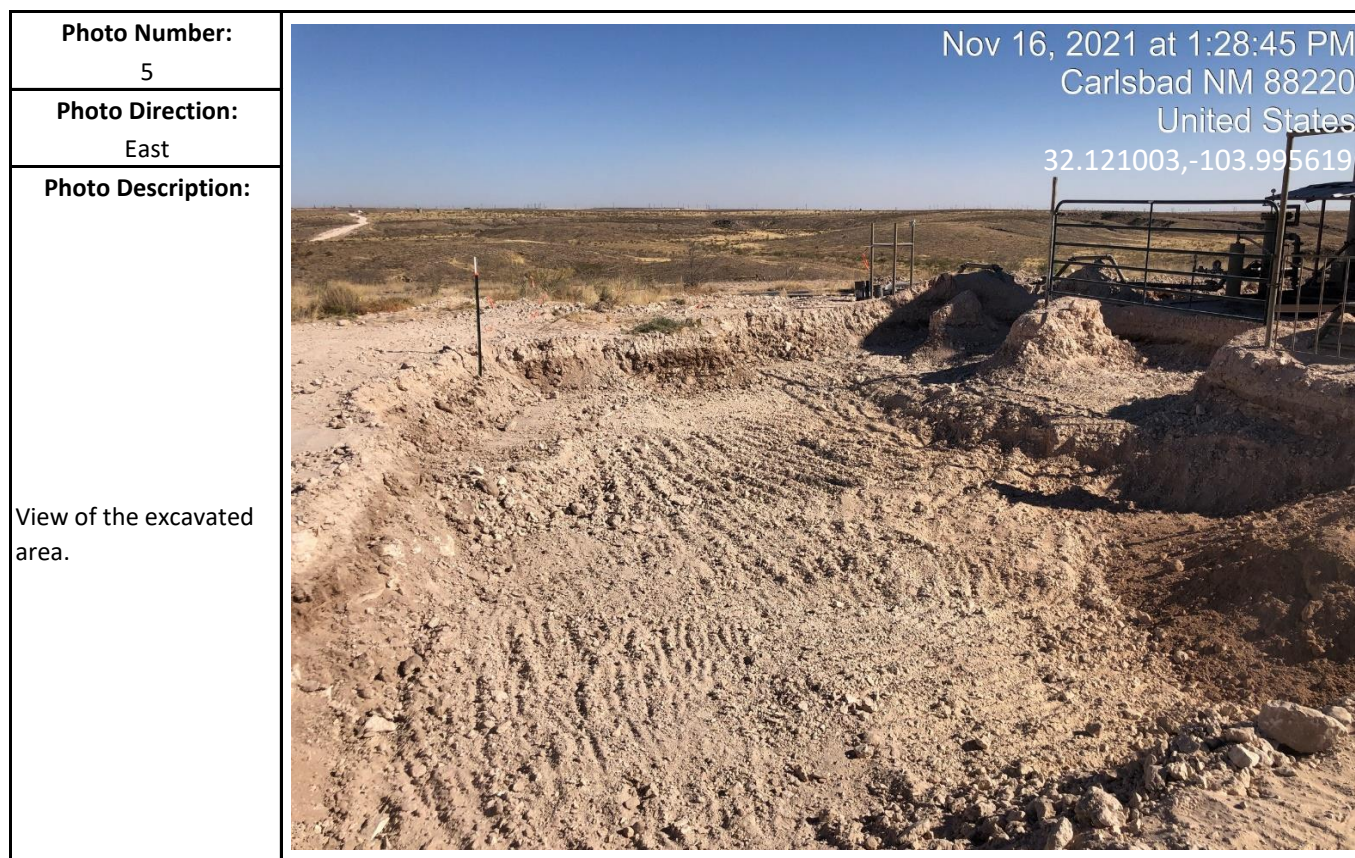
Photographic Log



Photographic Log



Photographic Log



Photographic Log



Photographic Log



Photo Number: 9	 <p>Nov 16, 2021 at 1:34:46 PM Carlsbad NM 88220 United States 32.120921,-103.995503</p>
Photo Direction: South-Southeast	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>Nov 23, 2021 at 3:55:47 PM Carlsbad NM 88220 United States 32.121039,-103.995545</p>
Photo Direction: South	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log



Photo Number: 11	<div>Nov 23, 2021 at 3:55:23 PM Carlsbad NM 88220 United States 32.121003,-103.995619</div> 
Photo Direction: East	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 12	<div>Nov 23, 2021 at 3:54:07 PM Carlsbad NM 88220 United States 32.120951,-103.995597</div> 
Photo Direction: East	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log


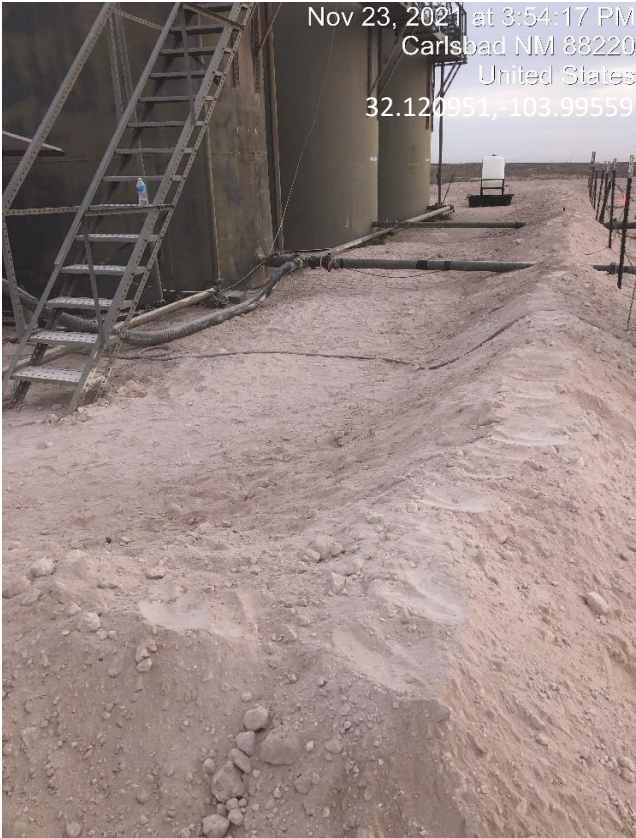
Photo Number: 13	 <p>Nov 23, 2021 at 11:29:31 AM Carlsbad NM 88220 United States 32.120921,-103.995503</p>
Photo Direction: South-Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 14	 <p>Nov 23, 2021 at 3:54:17 PM Carlsbad NM 88220 United States 32.120951,-103.995559</p>
Photo Direction: South-Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 67354

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 67354
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Conoco Philip's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred 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.	2/14/2022