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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	NAPP2321448004
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Forty Acres Energy	OGRID 371416
Contact Name Alex Bolanos	Contact Telephone 832-689-3788
Contact email alex@faenergyus.com	Incident # *(assigned by OCD)* NAPP2321448004
Contact mailing address 11757 Katy FWY Suite 725, Houston, TX 77079	

Location of Release Source

Latitude 32.54431 Longitude -103.33069
(NAD 83 in decimal degrees to 5 decimal places)

Site Name West Eumont Unit Federal D Battery	Site Type Battery
Date Release Discovered 08/02/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
E	26	20S	36E	Lea

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 5 bbls	Volume Recovered (bbls) 0 bbls
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release	Failure of a circulation pump sump. The release was contained to the tank battery earthen berm. Response efforts included removal of immediate soil impacts. Environmental company has been retained to assess any residual impacts and develop corrective action plan.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2321448004
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

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

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

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

Printed Name: Alex Bolanos
Title: Reg & Production Analyst

Signature: Alex Bolanos
Date: 8/4/2023

email: alex@faenergyus.com
Telephone: 8326893788

OCD Only

Received by: Shelly Wells
Date: 8/4/2023

Incident ID	NAPP2321448004
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2321448004
District RP	
Facility ID	
Application ID	

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

Printed Name: Alex Bolanos Title: Regulatory and Production Analyst

Signature: Alex Bolanos Date: 12/06/2023

email: alex@faenergyus.com Telephone: (832)689-3788

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2321448004
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: Alex Bolanos Title: Regulatory and Production Analyst

Signature: Alex Bolanos Date: 12/06/2023

email: alex@faenergyus.com Telephone: (832)689-3788

OCD Only

Received by: _____ Date: _____

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

Signature: Nelson Velez Date: 12/22/2023

Environmental & Safety Solutions, Inc.

DEFERRAL REQUEST REPORT

West Eumont Unit Federal D Battery

Lea County, New Mexico

Incident Number NAPP2321448004

Prepared for:

Forty Acres Energy, LLC

11757 Katy Freeway, Suite 725

Houston, TX 77079

Carlsbad ● Midland ● San Antonio ● Lubbock ● Hobbs ● Lafayette

SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Forty Acres Energy, LLC (FAE), presents the following Deferral Request Report (DRR) detailing site assessment and soil sampling activities performed for an inadvertent release of crude oil at the West Eumont Unit Federal D Battery (Site). Based on field observations, information provided by FAE, and review of the laboratory analytical results from soil sampling activities at the Site, FAE requests to defer residual soil impacts beneath and immediately adjacent to active production equipment until decommissioning or major facility deconstruction of the Site, whichever comes first.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit E, Section 26, Township 20 South, Range 36 East, in Lea County, New Mexico (32.54431°, -103.33069°) and is associated with oil and gas exploration and production operations on Private Land (**Figure 1** in **Appendix A**).

Based on information provided by FAE, on August 2, 2022, a circulation pump sump failure and release of an estimated 5 barrels (bbls) of crude oil within the secondary containment earthen berm was discovered. Initial response efforts included excavation and removal of observed soil impacts to the maximum extent practicable (MEP), totaling 14 cubic yards (CYs). The New Mexico Oil Conservation Division (NMOCD) did not receive A Release Notification and Corrective Action Form C-141 (Form C-141) within 15 days of the release. As a result, FAE submitted a Form C-141 with release incident details, which was received by the NMOCD on August 4, 2023, and was subsequently assigned Incident Number NAPP2321448004. FAE provided photos and a map of the release area identifying the Area of Concern (AOC), which is presented on **Figure 2** in **Appendix A**.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on New Mexico Office of the State Engineer (NMOSE) permitted soil boring L-15554-POD1 that was recently drilled by Coffey Drilling, located approximately ½ mile south of the Site on the West Eumont Unit Federal D Battery well pad. The soil boring location may be referenced on **Figure 1** in **Appendix A**. Using a truck mounted air rotary drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 105 feet bgs. No fluids were observed throughout the drilling process nor after a 72-hour observation period. Following the observation period, the boring was plugged and abandoned

according to the appropriate regulations. Referenced well records for the soil boring are provided in **Appendix B**.

The soil boring location and regional groundwater well locations are shown in **Figure 1A** in **Appendix A**.

All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used for the Site characterization are included in **Figure 1B** and **Figure 1C** in **Appendix A**.

Based on the results from the desktop review and estimated regional depth to groundwater at the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria†
Chloride	Environmental Protection Agency (EPA) 300.0	20,000 milligram per kilogram (mg/kg)
TPH (Total Petroleum Hydrocarbon)	EPA 8015 M/D	2,500 mg/kg
TPH-Gasoline Range Organics (GRO) + TPH-Diesel Range Organics (DRO)	EPA 8015 M/D	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

†*The reclamation standard concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13*.

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

From July 31, 2023, to August 7, 2023, Etech conducted a site assessment via delineation soil sampling activities to confirm details of the release provided on the Form C-141 and to characterize the AOC by verifying the presence or absence of impacted soil. Ten delineation potholes (PH01 through PH10) were advanced via mechanical equipment to assess the lateral and vertical extents of the AOC. Delineation activities were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two samples were collected from each delineation soil sample location, representing the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions are included on soil sampling logs shown in **Appendix C**. The locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**..

Concurrently with delineation soil sampling activities, Etech collected two 5-point composite soil samples from the existing excavation advanced during initial response efforts at a sampling frequency of 200 square feet from the excavation floor and sidewalls. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The locations of the excavation soil samples are shown in **Figure 3** in **Appendix A**. Photographic documentation of soil sampling activities is included in **Appendix D**.

The delineation and excavation confirmation soil samples were placed directly into lab provided pre-cleaned jars, packed with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of COCs.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that concentrations of COCs for all delineation soil samples were below the applicable Site Closure Criteria, except PH04 at 0.5 feet bgs as indicated by elevated TPH-GRO/TPH-DRO and TPH. Laboratory analytical results are summarized in **Table 1** in

Attachment E, and the complete laboratory reports with chain-of-custody documentation are included in **Attachment F.**

DEFERRAL REQUEST

Based on the data collected from the final delineation soil samples, FAE requests to defer the remaining residual impacts within the secondary containment earthen berm, considering the following:

- Depth to groundwater is estimated to be greater than 100 feet bgs based on NMOSE permitted soil boring L-15554-POD1, and no other sensitive receptors are within the applicable buffer ranges.

- Laboratory analyses for all delineation soil samples yielded COC concentrations below the applicable Site Closure Criteria, except PH04 at 0.5 feet bgs as indicated by elevated TPH-GRO/TPH-DRO and TPH. As such, residual impacts exceeding the applicable Site Closure Criteria appear to be contained within the top 4 feet of the AOC in the vicinity of the PH04 sampling location.

- Impacts have been excavated to the MEP and removed from the Site to limit future vertical migration and human exposure upon future Site visits. The remaining residual impacts associated with the inadvertent release reside beneath and immediately adjacent to an above ground storage tank and above ground utilities. Safety restrictions prevented the ability to remove impacted soil in the vicinity of PH04, because further removal of impacted soil would compromise the structural integrity of active production equipment and endanger on-site personnel. The approximate area of the proposed deferral area is presented on **Figure 4** in **Appendix A**.

- Based on the laboratory analytical data and corrective actions detailed in this DRR, residual impacts associated with the inadvertent release have been excavated to the MEP and sufficiently delineated in accordance to the applicable Site Closure Criteria for definition of vertical and horizontal peripheries. FAE believes the completed remedial actions have mitigated impacts at the Site and fulfilled requirements set forth in NMAC 19.15.29.13 regulations in order to be protective of human health, the environment and groundwater. As such, FAE requests consideration for the deferral of approximately 52 CYs of impacted soil associated with Incident Number NAPP2321448004 until decommissioning or major facility deconstruction of the Site, whichever comes first.

LIMITATIONS

Etech has prepared this DRR 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.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Erick Herrera at (281) 777-4152 or erick@etechenv.com. **Appendix G** provides correspondence email notification receipts associated with the subject release.

Sincerely,

eTECH Environmental and Safety Solutions, Inc.

Erick Herrera
Staff Geologist

Joseph S. Hernandez
Senior Managing Geologist

cc: David Schellstede, Forty Acres Energy
New Mexico Oil Conservation Division

Appendices:

Appendix A	Figure 1: Site Map
	Figure 1A: Site Characterization Map – Groundwater
	Figure 1B: Site Characterization Map – Surficial Receptors
	Figure 1C: Site Characterization Map – Karst Potential
	Figure 2: Delineation Soil Sample Locations
	Figure 3: Excavation Soil Sample Locations
	Figure 4: Deferral Area
Appendix B	Referenced Well Record
Appendix C	Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Tables
Appendix F	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix G	NMOCD Notifications

APPENDIX A

Figures

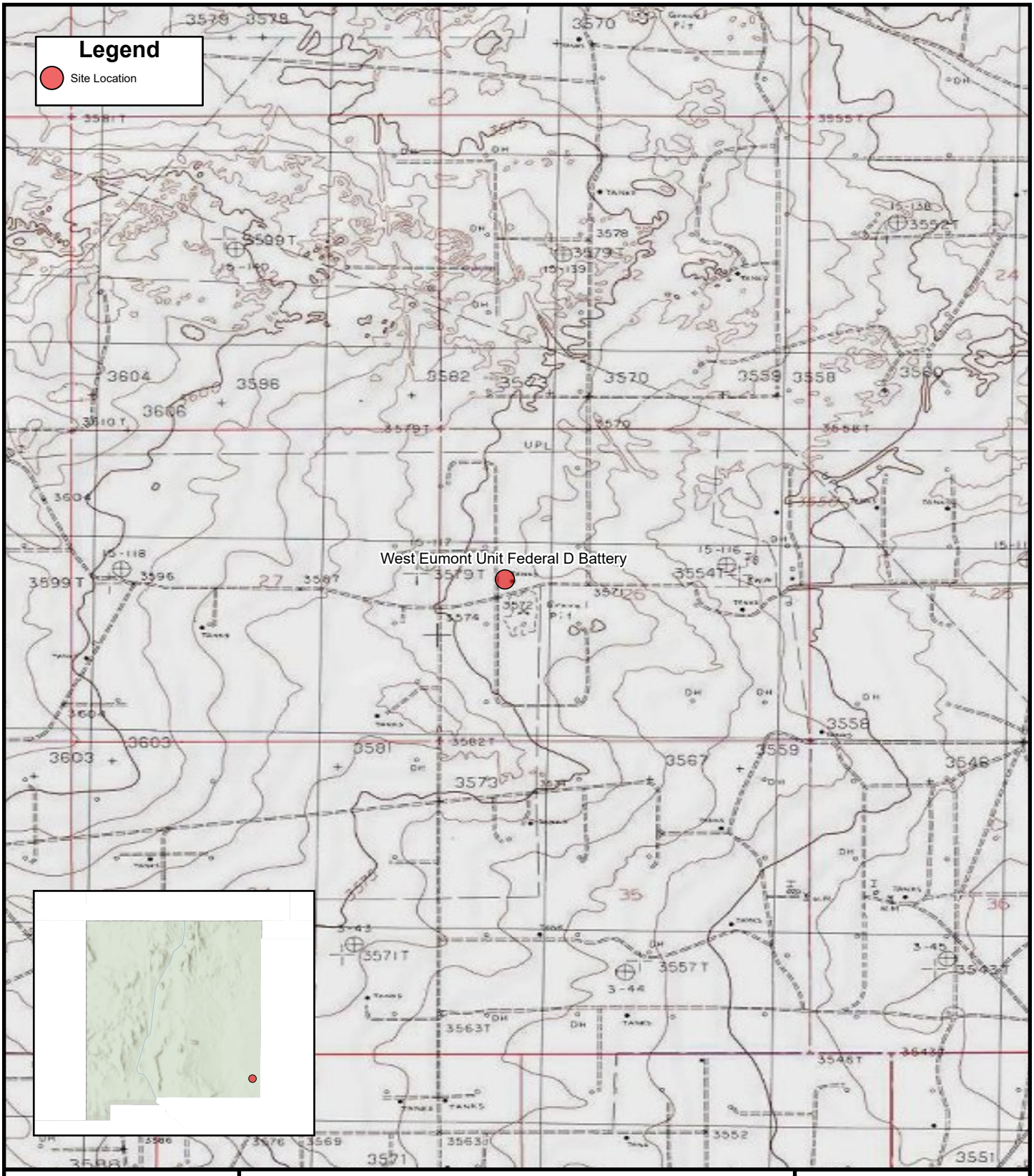


FIGURE 1

Site Location Map

Forty Acres Energy, LLC
West Eumont Unit Federal D Battery
Unit E Sec 26 T20S R36E
Lea County, New Mexico

N

0 1,250 2,500 Feet

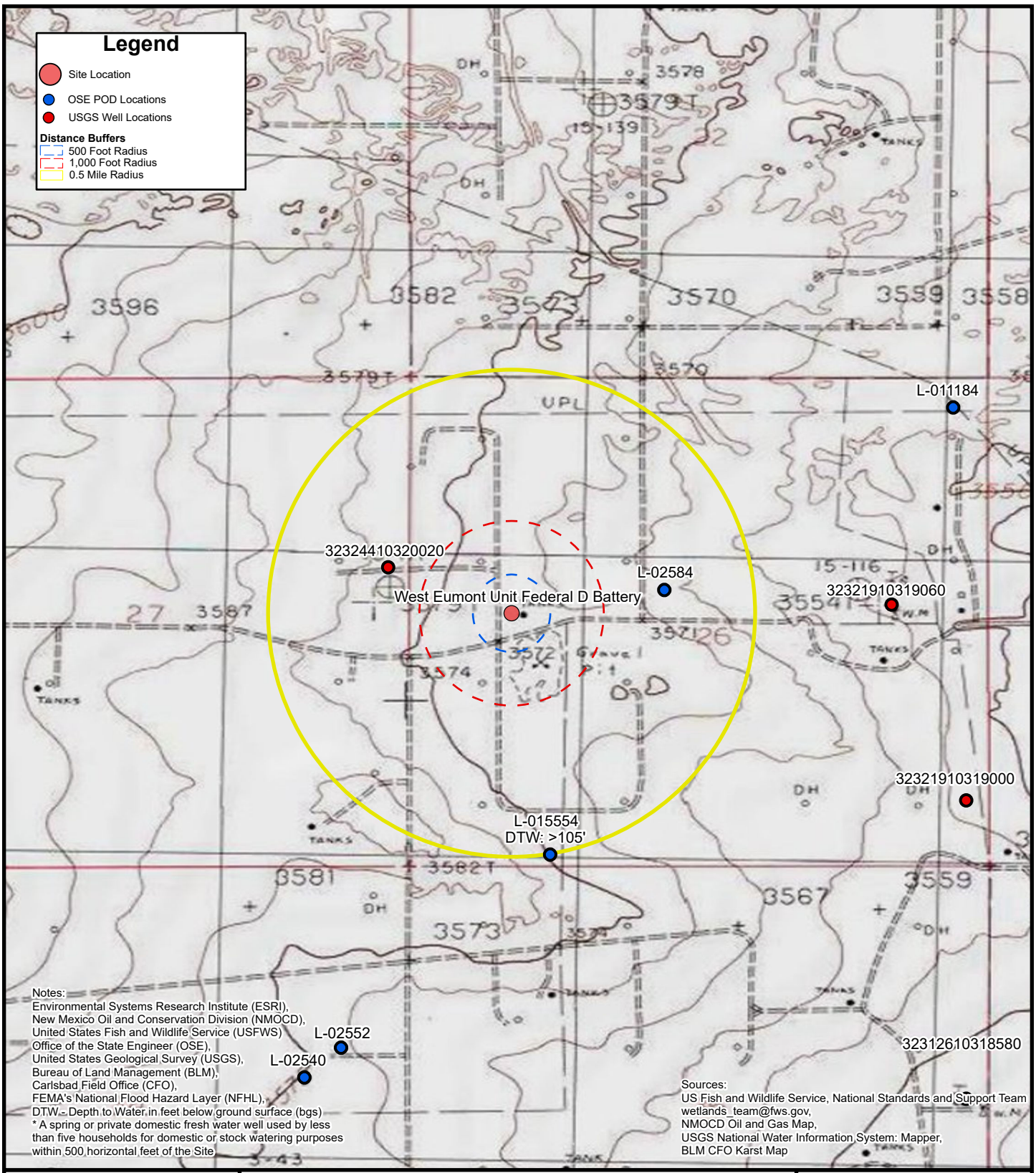


FIGURE 1A

Site Characterization Map-Groundwater

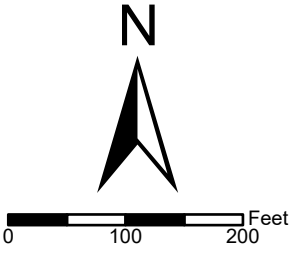
Forty Acres Energy, LLC
West Eumont Unit Federal D Battery
Unit E Sec 26 T20S R36E
Lea County, New Mexico

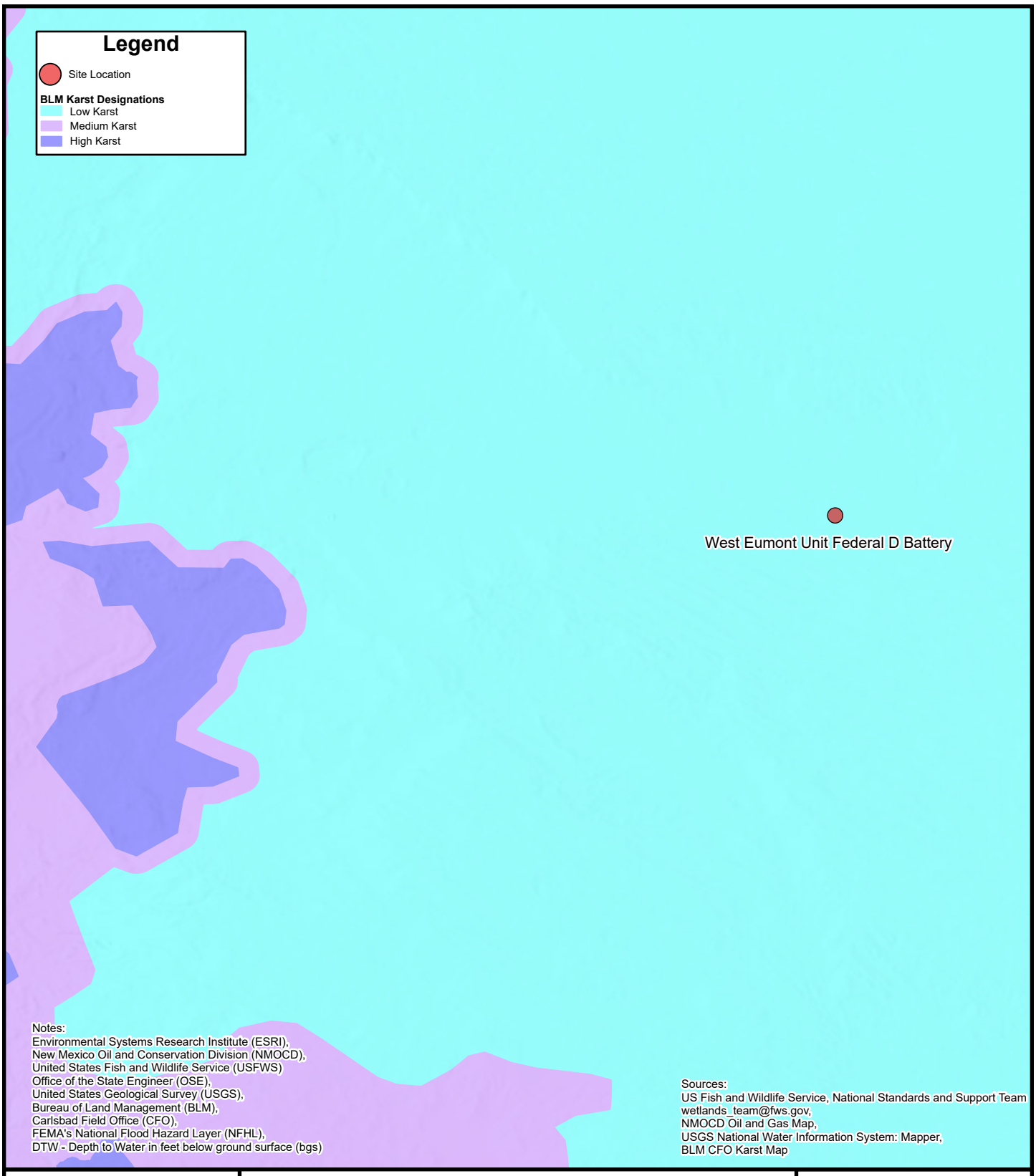
eTECH

FIGURE 1B

Site Characterization-Surficial Receptors

Forty Acres Energy, LLC
West Eumont Unit Federal D Battery
Unit E Sec 26 T20S R36E
Lea County, New Mexico





eTECH

FIGURE 1C

Site Characterization Map - Karst Potential

Forty Acres Energy, LLC
West Eumont Unit Federal D Battery
Unit E Sec 26 T20S R36E
Lea County, New Mexico

N

0 22,120 44,240 Feet

eTECH

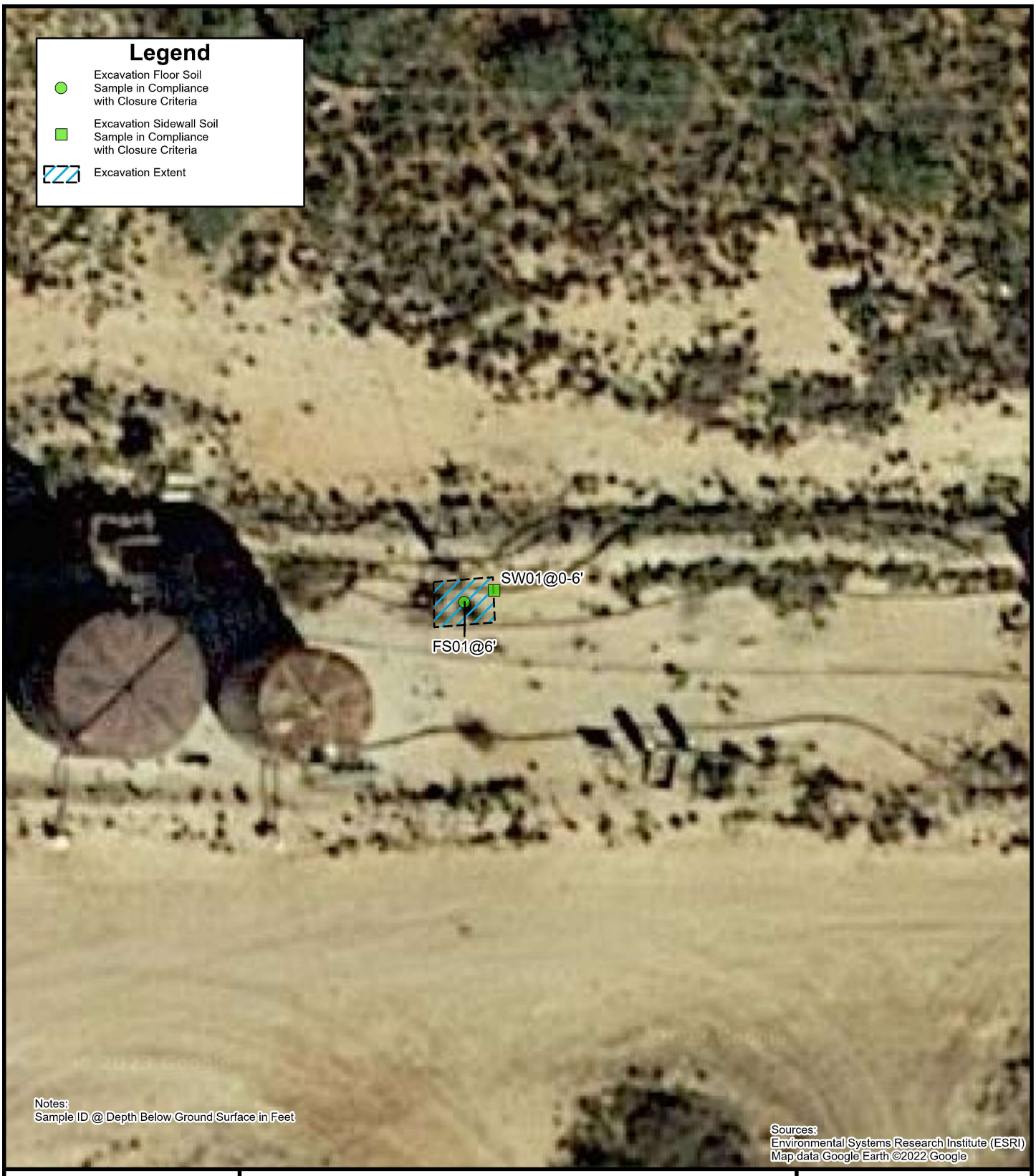
FIGURE 2

Delineation Soil Sample Locations

Forty Acres Energy, LLC
West Eumont Unit Federal D Battery
Unit E Sec 26 T20S R36E
Lea County, New Mexico

N

0 25 50 Feet



eTECH

FIGURE 3

Excavation Soil Sample Locations

Forty Acres Energy, LLC
West Eumont Unit Federal D Battery
Unit E Sec 26 T20S R36E
Lea County, New Mexico

N

0 10 20 Feet

eTECH

FIGURE 4

Deferral Area

Forty Acres Energy, LLC
West Eumont Unit Federal D Battery
Unit E Sec 26 T20S R36E
Lea County, New Mexico

N

0 25 50 Feet

APPENDIX B

Referenced Well Record

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
Pod-1		L-15554

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Forty Acres Energy	346-254-9544

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
11757 Katy Freeway	Houston	TX	77079

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	32	13.6	N
	LONGITUDE	-103	19	13.9	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1839	Boyd Coffey	Coffey Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8-25-2023	8-25-2023	105	105	NA

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	100	6.5	2 3/8	Threaded	2	SCh 40	
100	105	6.5	2 3/8	Threaded	2	SCH 40	0.035

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	6.5	Bentonite Quick grout	3.5	Tremie
20	105	6.5	Native fill	22	Pour

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

PLUGGING RECORD

NOTE: **A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: I-15554 POD-1

Well owner: Forty Acres Energy Phone No.: 346-254-9544

Mailing address: 11757 Katy Freeway

City: Houston State: Texas Zip code: 77079

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Coffey Drilling

2) New Mexico Well Driller License No.: 1839 Expiration Date: _____

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): _____
Boyd Coffye

4) Date well plugging began: 8-28-2023 Date well plugging concluded: 8-28-2023

5) GPS Well Location: Latitude: 32 deg, 32 min, 13.6 sec
Longitude: -103 deg, 19 min, 46.3 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl),
by the following manner: Back fill with Native soil

7) Static water level measured at initiation of plugging: NZ ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 8-4-2023

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-20 BLS 3/8 bentonite hole plug	10 SKS Bentonite hole plug, 50 gallons frsh water	35 gallons	Pour	Open Annualr space plugged
	20-105 Native cuttings			Pour	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, _____ , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

_____ _____

Signature of Well Driller Date

APPENDIX C

Soil Sampling Logs

eTECH

	Sample Name: PH01	Date: 08/07/2023
	Site Name: West Eumont Unit Federal D Battery	
	Incident Number: NAPP2321448004	
	Job Number: 18342	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.54431, -103.33069	Hole Diameter: N/A	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND, dry, brown, poorly graded, very fine to fine grained, some silt, no staining, no odor.
Dry	<112	2.2	No	PH01	0.5			
Dry	<112	0.0	No		1	1		
Dry	<112	0.0	No		2	2		
					3	3		
Dry	<112	0.0	No	PH01	4	4		

Total Depth

eTECH

	Sample Name: PH02	Date: 08/07/2023
	Site Name: West Eumont Unit Federal D Battery	
	Incident Number: NAPP2321448004	
	Job Number: 18342	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.54431, -103.33069	Hole Diameter: N/A	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND, dry, brown, poorly graded, very fine to fine grained, some silt, no staining, no odor.
Dry	136	0	No	PH02	0.5			
Dry	<112	0.0	No		1	1		
Dry	<112	0.0	No		2	2		
					3	3		
Dry	<112	0.0	No	PH02	4	4		

Total Depth

eTECH

	Sample Name: PH03	Date: 08/07/2023
	Site Name: West Eumont Unit Federal D Battery	
	Incident Number: NAPP2321448004	
	Job Number: 18342	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.54431, -103.33069	Hole Diameter: N/A	Total Depth: 6'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-1') SAND, dry, brown, poorly graded, very fine to fine grained, some silt, some staining, no odor.
Dry	528	2.2	Yes	PH03	0.5			
Dry	356	0.0	Yes		1	1	SP-SM	(1-6') Sand, dry, brown, poorly graded, very fine to fine grained, some silt, some staining, no odor.
Dry	573	0.0	Yes		2	2		
					3	3		
Dry	628	0.0	Yes	PH03	4	4		
Dry	356	0.0	No		5	5		
Dry	136	0.0	No	PH03	6	6		
						Total Depth		

eTECH

	Sample Name: PH04	Date: 08/07/2023
	Site Name: West Eumont Unit Federal D Battery	
	Incident Number: NAPP2321448004	
	Job Number: 18342	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.54431, -103.33069	Hole Diameter: N/A	Total Depth: 6'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	CCHE	(0-1') Pad surface CALICHE, dry, some staining, no odor.
Dry	628	0.0	No	PH04	0.5			
Dry	860	0.0	Yes		1	1	SP-SM	(1-6') SAND, dry, brown, poorly graded, very fine to fine grained, some silt, some staining, no odor.
Dry	860	0.0	Yes		2	2		
					3	3		
Dry	396	0.0	Yes	PH04	4	4		
Dry	576	0.0	Yes		5	5		
Dry	284	0.0	No	PH04	6	6		

Total Depth

eTECH

	Sample Name: PH05	Date: 08/07/2023
	Site Name: West Eumont Unit Federal D Battery	
	Incident Number: NAPP2321448004	
	Job Number: 18342	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.54431, -103.33069	Hole Diameter: N/A	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND, dry, reddish brown, poorly graded, very fine to fine grained, some silt, no staining, no odor.
Dry	<112	0.0	No	PH05	0.5			
Dry	<112	0.0	No		1	1		
Dry	<112	0.0	No		2	2		
					3	3		
Dry	<112	0.0	No	PH05	4	4		

Total Depth

eTECH

	Sample Name: PH06	Date: 08/07/2023
	Site Name: West Eumont Unit Federal D Battery	
	Incident Number: NAPP2321448004	
	Job Number: 18342	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.54431, -103.33069	Hole Diameter: N/A	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	CCHE	(0-1) CALICHE, dry, no staining, no odor.
Dry	136	0.0	No	PH06	0.5			
Dry	<112	0.0	No		1	1	SP-SM	(1-4') SAND, dry, brown, poorly graded, very fine to fine grained, some silt, no staining, no odor.
Dry	<112	0.0	No		2	2		
					3	3		
Dry	<112	0.0	No	PH06	4	4		

Total Depth

eTECH

	Sample Name: PH07	Date: 08/07/2023
	Site Name: West Eumont Unit Federal D Battery	
	Incident Number: NAPP2321448004	
	Job Number: 18342	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.54431, -103.33069	Hole Diameter: N/A	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	CCHE	(0-1) CALICHE, dry, no staining, no odor.
Dry	<112	0.0	No	PH07	0.5			
Dry	<112	0.0	No		1	1	SP-SM	(1-4') SAND, dry, brown, poorly graded, very fine to fine grained, some silt, no staining, no odor.
Dry	<112	0.0	No		2	2		
					3	3		
Dry	<112	0.0	No	PH07	4	4		

Total Depth

eTECH

	Sample Name: PH08	Date: 08/07/2023
	Site Name: West Eumont Unit Federal D Battery	
	Incident Number: NAPP2321448004	
	Job Number: 18342	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.54431, -103.33069	Hole Diameter: N/A	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND, dry, brown, poorly graded, very fine to fine grained, some silt, no staining, no odor.
Dry	<112	0.0	No	PH08	0.5			
Dry	<112	0.0	No		1	1		
Dry	<112	0.0	No		2	2		
					3	3		
Dry	<112	0.0	No	PH08	4	4		

Total Depth

eTECH

	Sample Name: PH09	Date: 08/07/2023
	Site Name: West Eumont Unit Federal D Battery	
	Incident Number: NAPP2321448004	
	Job Number: 18342	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.54431, -103.33069	Hole Diameter: N/A	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND, dry, brown, poorly graded, very fine to fine grained, some silt, no staining, no odor.
Dry	<112	0.0	No	PH09	0.5			
Dry	<112	0.0	No		1	1		
Dry	<112	0.0	No		2	2		
					3	3		
Dry	<112	0.0	No	PH09	4	4		

Total Depth

eTECH

	Sample Name: PH10	Date: 08/07/2023
	Site Name: West Eumont Unit Federal D Battery	
	Incident Number: NAPP2321448004	
	Job Number: 18342	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Backhoe
Site Coordinates: 32.54431, -103.33069	Hole Diameter: N/A	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND, dry, brown, poorly graded, very fine to fine grained, some silt, no staining, no odor.
Dry	136	0.0	No	PH10	0.5			
Dry	284	0.0	No		1	1		
Dry	<112	0.0	No		2	2		
					3	3		
Dry	<112	0.0	No	PH10	4	4		

Total Depth

APPENDIX D

Photographic Log

PHOTOGRAPHIC LOG
Forty Acres Energy, LLC
West Eumont Unit Federal D Battery
NAPP2321448004

Photograph 1 **Date: 08/07/2023**
Description: Southwestern view of delineation activities.

Photograph 2 **Date: 08/07/2023**
Description: Southwestern view of delineation activities.

Photograph 3 **Date: 08/07/2023**
Description: Souteastern view of delineation activities.

Photograph 4 **Date: 08/07/2023**
Description: Northwestern view of delineation activities.

APPENDIX E

Tables

eTECH

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Forty Acres Energy, LLC
West Eumont Unit Federal D Battery
Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples - Incident Number NAPP2321448004										
PH01	08/07/2023	0.5	<0.00199	<0.00398	<49.9	198	<49.9	198	198	226
PH01	08/07/2023	4	<0.00198	<0.00396	<49.8	184	<49.8	184	184	224
PH02	08/07/2023	0.5	<0.00201	<0.00402	<50.0	638	<50.0	638	638	210
PH02	08/07/2023	4	<0.00200	<0.00401	<49.6	<49.6	<49.6	<49.6	<49.6	89.6
PH03	08/07/2023	0.5	<0.00199	<0.00398	<50.4	699	<50.4	699	699	754
PH03	08/07/2023	4	<0.00200	<0.00399	<50.1	183	<50.1	183	183	280
PH03	08/07/2023	6	<0.00198	<0.00198	<50.5	<50.5	<50.5	<50.5	<50.5	195
PH04	08/07/2023	0.5	<0.00198	<0.00396	<252	4,430	<252	**4,430**	**4,430**	1,910
PH04	08/07/2023	4	<0.00202	<0.00403	<50.2	240	<50.2	240	240	306
PH04	08/07/2023	6	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	284
PH05	08/07/2023	0.5	<0.00202	<0.00404	<50.0	71.0	<50.0	71.0	71.0	135
PH05	08/07/2023	4	<0.00200	<0.00401	<50.0	63.4	<50.0	63.4	63.4	185
PH06	08/07/2023	0.5	<0.00199	<0.00398	<49.6	51.3	<49.6	51.3	51.3	219
PH06	08/07/2023	4	<0.00200	<0.00400	<49.9	80.0	<49.9	80.0	80.0	189
PH07	08/07/2023	0.5	<0.00200	<0.00399	<49.5	55.1	<49.9	55.1	55.1	133
PH07	08/07/2023	4	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	<50.1	250
PH08	08/07/2023	0.5	<0.00202	<0.00403	<50.2	51.2	<50.2	51.2	51.2	128
PH08	08/07/2023	4	<0.00199	<0.00398	<50.4	51.6	<50.4	<50.4	<50.4	155
PH09	08/07/2023	0.5	<0.00199	<0.00398	<49.8	53.8	<49.8	53.8	53.8	98.0
PH09	08/07/2023	4	<0.00201	<0.00402	<50.2	62.3	<50.2	62.3	62.3	113
PH10	08/07/2023	0.5	<0.00200	<0.00401	<50.5	56.6	<50.5	56.6	56.6	140
PH10	08/07/2023	4	<0.00200	<0.00399	<49.6	74.8	<49.6	74.8	74.8	104

eTECH

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Forty Acres Energy, LLC
West Eumont Unit Federal D Battery
Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
Excavation Soil Samples - Incident Number NAPP2321448004										
FS01	08/07/2023	6	<0.00200	<0.00401	<49.6	<49.6	<49.6	<49.6	<49.6	224
SW01	08/07/2023	0-6	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	98.8

Notes:
bgs: below ground surface
mg/kg: milligrams per kilogram
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
Text in "grey" represents excavated soil samples
*Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release*

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Erick Herrera
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Generated 8/21/2023 2:36:12 PM

JOB DESCRIPTION

WEU Federal D Battery
SDG NUMBER Lea County NM

JOB NUMBER

890-5063-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

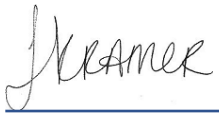
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
8/21/2023 2:36:12 PM

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

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Laboratory Job ID: 890-5063-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Job ID: 890-5063-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5063-1

Receipt
The samples were received on 8/9/2023 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-60387 and analytical batch 880-60350 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60390 and analytical batch 880-60609 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: PH01 (890-5063-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH03 (890-5063-6) and PH05 (890-5063-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH06 (890-5063-11), PH06 (890-5063-12) and PH07 (890-5063-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60609/32), (CCV 880-60609/48), (CCV 880-60609/59), (CCV 880-60609/66) and (LCSD 880-60390/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-60609 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-60609/66).

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59872 and 880-59872 and analytical batch 880-60016 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.The associated samples are: PH01 (890-5063-1), PH01 (890-5063-2), PH02 (890-5063-3), PH02 (890-5063-4), PH03 (890-5063-5), PH03 (890-5063-6), PH04 (890-5063-7), PH04 (890-5063-8), PH05 (890-5063-9), PH05 (890-5063-10), (890-5063-A-1-B MS) and (890-5063-A-1-C MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59872 and 880-59872 and analytical batch 880-60016 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.The associated samples are: PH06 (890-5063-11), PH06 (890-5063-12), PH07 (890-5063-13), PH07 (890-5063-14), PH08 (890-5063-15), PH08 (890-5063-16), PH09 (890-5063-17), PH09 (890-5063-18), PH10 (890-5063-19), PH10 (890-5063-20), (890-5063-A-11-B MS) and (890-5063-A-11-C MSD).

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

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Job ID: 890-5063-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH01

Lab Sample ID: 890-5063-1
Matrix: Solid
Date Collected: 08/07/23 12:20
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/16/23 23:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/16/23 23:44	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		08/16/23 13:37	08/16/23 23:44	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		08/16/23 13:37	08/16/23 23:44	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		08/16/23 13:37	08/16/23 23:44	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		08/16/23 13:37	08/16/23 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*08/16/23 13:37*	*08/16/23 23:44*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/16/23 13:37*	*08/16/23 23:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**198**		49.9		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/16/23 15:08	08/19/23 21:28	1
Diesel Range Organics (Over C10-C28)	**198**		49.9		mg/Kg		08/16/23 15:08	08/19/23 21:28	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/16/23 15:08	08/19/23 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*237*	*S1+*	*70 - 130*	*08/16/23 15:08*	*08/19/23 21:28*	*1*
o-Terphenyl	*204*	*S1+*	*70 - 130*	*08/16/23 15:08*	*08/19/23 21:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**226**	**F1**	5.00		mg/Kg			08/12/23 01:47	1

Client Sample ID: PH01

Lab Sample ID: 890-5063-2
Matrix: Solid
Date Collected: 08/07/23 12:30
Date Received: 08/09/23 08:15
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/16/23 13:37	08/17/23 00:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/16/23 13:37	08/17/23 00:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/16/23 13:37	08/17/23 00:04	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/16/23 13:37	08/17/23 00:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/16/23 13:37	08/17/23 00:04	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/16/23 13:37	08/17/23 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*08/16/23 13:37*	*08/17/23 00:04*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH01

Lab Sample ID: 890-5063-2
Matrix: Solid
Date Collected: 08/07/23 12:30
Date Received: 08/09/23 08:15
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/16/23 13:37*	*08/17/23 00:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**184**		49.8		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/16/23 15:08	08/19/23 21:50	1
Diesel Range Organics (Over C10-C28)	**184**		49.8		mg/Kg		08/16/23 15:08	08/19/23 21:50	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/16/23 15:08	08/19/23 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*08/16/23 15:08*	*08/19/23 21:50*	*1*
o-Terphenyl	*107*		*70 - 130*	*08/16/23 15:08*	*08/19/23 21:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**224**		5.01		mg/Kg			08/12/23 02:09	1

Client Sample ID: PH02

Lab Sample ID: 890-5063-3
Matrix: Solid
Date Collected: 08/07/23 12:40
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/16/23 13:37	08/17/23 00:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/16/23 13:37	08/17/23 00:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/16/23 13:37	08/17/23 00:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/16/23 13:37	08/17/23 00:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/16/23 13:37	08/17/23 00:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/16/23 13:37	08/17/23 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*08/16/23 13:37*	*08/17/23 00:25*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/16/23 13:37*	*08/17/23 00:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**638**		50.0		mg/Kg			08/21/23 11:32	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH02

Date Collected: 08/07/23 12:40
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Lab Sample ID: 890-5063-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/23 15:08	08/19/23 22:12	1
Diesel Range Organics (Over C10-C28)	**638**		50.0		mg/Kg		08/16/23 15:08	08/19/23 22:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/23 15:08	08/19/23 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*08/16/23 15:08*	*08/19/23 22:12*	*1*
o-Terphenyl	*103*		*70 - 130*	*08/16/23 15:08*	*08/19/23 22:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		4.97		mg/Kg			08/12/23 02:16	1

Client Sample ID: PH02

Date Collected: 08/07/23 12:50
Date Received: 08/09/23 08:15
Sample Depth: 4

Lab Sample ID: 890-5063-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 00:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 00:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 00:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/16/23 13:37	08/17/23 00:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 00:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/16/23 13:37	08/17/23 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*08/16/23 13:37*	*08/17/23 00:45*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/16/23 13:37*	*08/17/23 00:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/16/23 15:08	08/19/23 20:23	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/16/23 15:08	08/19/23 20:23	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/16/23 15:08	08/19/23 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*08/16/23 15:08*	*08/19/23 20:23*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/16/23 15:08*	*08/19/23 20:23*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH02

Lab Sample ID: 890-5063-4
Matrix: Solid
Date Collected: 08/07/23 12:50
Date Received: 08/09/23 08:15
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.9**		5.02		mg/Kg			08/12/23 02:23	1

Client Sample ID: PH03

Lab Sample ID: 890-5063-5
Matrix: Solid
Date Collected: 08/07/23 13:00
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 01:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 01:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 01:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/16/23 13:37	08/17/23 01:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 01:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/16/23 13:37	08/17/23 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*08/16/23 13:37*	*08/17/23 01:06*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/16/23 13:37*	*08/17/23 01:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**699**		50.4		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/16/23 15:08	08/19/23 22:34	1
Diesel Range Organics (Over C10-C28)	**699**		50.4		mg/Kg		08/16/23 15:08	08/19/23 22:34	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/16/23 15:08	08/19/23 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*08/16/23 15:08*	*08/19/23 22:34*	*1*
o-Terphenyl	*102*		*70 - 130*	*08/16/23 15:08*	*08/19/23 22:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**754**		5.00		mg/Kg			08/12/23 02:30	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH03

Lab Sample ID: 890-5063-6
Matrix: Solid
Date Collected: 08/07/23 13:10
Date Received: 08/09/23 08:15
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 01:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 01:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 01:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/16/23 13:37	08/17/23 01:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 01:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/16/23 13:37	08/17/23 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*08/16/23 13:37*	*08/17/23 01:26*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/16/23 13:37*	*08/17/23 01:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**183**		50.1		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/16/23 15:08	08/19/23 22:56	1
Diesel Range Organics (Over C10-C28)	**183**		50.1		mg/Kg		08/16/23 15:08	08/19/23 22:56	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/16/23 15:08	08/19/23 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*237*	*S1+*	*70 - 130*	*08/16/23 15:08*	*08/19/23 22:56*	*1*
o-Terphenyl	*200*	*S1+*	*70 - 130*	*08/16/23 15:08*	*08/19/23 22:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		4.96		mg/Kg			08/12/23 02:52	1

Client Sample ID: PH04

Lab Sample ID: 890-5063-7
Matrix: Solid
Date Collected: 08/07/23 13:20
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/16/23 13:37	08/17/23 01:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/16/23 13:37	08/17/23 01:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/16/23 13:37	08/17/23 01:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/16/23 13:37	08/17/23 01:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/16/23 13:37	08/17/23 01:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/16/23 13:37	08/17/23 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*08/16/23 13:37*	*08/17/23 01:47*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH04

Date Collected: 08/07/23 13:20
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Lab Sample ID: 890-5063-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*08/16/23 13:37*	*08/17/23 01:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4430**		252		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<252	U	252		mg/Kg		08/16/23 15:08	08/19/23 23:17	5
Diesel Range Organics (Over C10-C28)	**4430**		252		mg/Kg		08/16/23 15:08	08/19/23 23:17	5
OII Range Organics (Over C28-C36)	<252	U	252		mg/Kg		08/16/23 15:08	08/19/23 23:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*08/16/23 15:08*	*08/19/23 23:17*	*5*
o-Terphenyl	*111*		*70 - 130*	*08/16/23 15:08*	*08/19/23 23:17*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1910**		24.9		mg/Kg			08/12/23 02:59	5

Client Sample ID: PH04

Date Collected: 08/07/23 13:30
Date Received: 08/09/23 08:15
Sample Depth: 4

Lab Sample ID: 890-5063-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 02:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 02:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 02:08	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/16/23 13:37	08/17/23 02:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 02:08	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/16/23 13:37	08/17/23 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*08/16/23 13:37*	*08/17/23 02:08*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/16/23 13:37*	*08/17/23 02:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**240**		50.2		mg/Kg			08/21/23 11:32	1

Eurofins Carlsbad

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH04

Lab Sample ID: 890-5063-8
Matrix: Solid
Date Collected: 08/07/23 13:30
Date Received: 08/09/23 08:15
Sample Depth: 4

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/16/23 15:08	08/19/23 23:39	1
Diesel Range Organics (Over C10-C28)	**240**		50.2		mg/Kg		08/16/23 15:08	08/19/23 23:39	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/16/23 15:08	08/19/23 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*08/16/23 15:08*	*08/19/23 23:39*	*1*
o-Terphenyl	*102*		*70 - 130*	*08/16/23 15:08*	*08/19/23 23:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**306**		5.01		mg/Kg			08/12/23 03:06	1

Client Sample ID: PH05

Lab Sample ID: 890-5063-9
Matrix: Solid
Date Collected: 08/07/23 13:40
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 02:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 02:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 02:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/16/23 13:37	08/17/23 02:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 02:28	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/16/23 13:37	08/17/23 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*08/16/23 13:37*	*08/17/23 02:28*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/16/23 13:37*	*08/17/23 02:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**71.0**		50.0		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/23 15:08	08/20/23 00:01	1
Diesel Range Organics (Over C10-C28)	**71.0**		50.0		mg/Kg		08/16/23 15:08	08/20/23 00:01	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/23 15:08	08/20/23 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*08/16/23 15:08*	*08/20/23 00:01*	*1*
o-Terphenyl	*109*		*70 - 130*	*08/16/23 15:08*	*08/20/23 00:01*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH05

Lab Sample ID: 890-5063-9
Matrix: Solid
Date Collected: 08/07/23 13:40
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**135**		4.97		mg/Kg			08/12/23 03:13	1

Client Sample ID: PH05

Lab Sample ID: 890-5063-10
Matrix: Solid
Date Collected: 08/07/23 13:50
Date Received: 08/09/23 08:15
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 02:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 02:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 02:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/16/23 13:37	08/17/23 02:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 02:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/16/23 13:37	08/17/23 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/16/23 13:37*	*08/17/23 02:49*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/16/23 13:37*	*08/17/23 02:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**63.4**		50.0		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/23 15:08	08/20/23 00:22	1
Diesel Range Organics (Over C10-C28)	**63.4**		50.0		mg/Kg		08/16/23 15:08	08/20/23 00:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/23 15:08	08/20/23 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*08/16/23 15:08*	*08/20/23 00:22*	*1*
o-Terphenyl	*119*		*70 - 130*	*08/16/23 15:08*	*08/20/23 00:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**185**		5.05		mg/Kg			08/12/23 03:20	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH06

Lab Sample ID: 890-5063-11
Matrix: Solid
Date Collected: 08/07/23 14:00
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 04:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 04:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 04:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/16/23 13:37	08/17/23 04:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 04:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/16/23 13:37	08/17/23 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/16/23 13:37*	*08/17/23 04:10*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/16/23 13:37*	*08/17/23 04:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**51.3**		49.6		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/16/23 15:08	08/20/23 01:05	1
Diesel Range Organics (Over C10-C28)	**51.3**		49.6		mg/Kg		08/16/23 15:08	08/20/23 01:05	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/16/23 15:08	08/20/23 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*08/16/23 15:08*	*08/20/23 01:05*	*1*
o-Terphenyl	*121*		*70 - 130*	*08/16/23 15:08*	*08/20/23 01:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**219**	**F1**	5.00		mg/Kg			08/12/23 03:28	1

Client Sample ID: PH06

Lab Sample ID: 890-5063-12
Matrix: Solid
Date Collected: 08/07/23 14:10
Date Received: 08/09/23 08:15
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 04:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 04:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 04:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/23 13:37	08/17/23 04:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 04:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/23 13:37	08/17/23 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/16/23 13:37*	*08/17/23 04:31*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH06

Date Collected: 08/07/23 14:10
Date Received: 08/09/23 08:15
Sample Depth: 4

Lab Sample ID: 890-5063-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/16/23 13:37*	*08/17/23 04:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**80.0**		49.9		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/16/23 15:08	08/20/23 01:26	1
Diesel Range Organics (Over C10-C28)	**80.0**		49.9		mg/Kg		08/16/23 15:08	08/20/23 01:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/16/23 15:08	08/20/23 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*143*	*S1+*	*70 - 130*	*08/16/23 15:08*	*08/20/23 01:26*	*1*
o-Terphenyl	*124*		*70 - 130*	*08/16/23 15:08*	*08/20/23 01:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**189**		4.96		mg/Kg			08/12/23 03:49	1

Client Sample ID: PH07

Date Collected: 08/07/23 14:20
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Lab Sample ID: 890-5063-13
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 04:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 04:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 04:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/16/23 13:37	08/17/23 04:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 04:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/16/23 13:37	08/17/23 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*08/16/23 13:37*	*08/17/23 04:51*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/16/23 13:37*	*08/17/23 04:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**55.1**		49.5		mg/Kg			08/21/23 11:32	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH07

Lab Sample ID: 890-5063-13
Matrix: Solid
Date Collected: 08/07/23 14:20
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		08/16/23 15:08	08/20/23 01:47	1
Diesel Range Organics (Over C10-C28)	**55.1**		49.5		mg/Kg		08/16/23 15:08	08/20/23 01:47	1
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		08/16/23 15:08	08/20/23 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*08/16/23 15:08*	*08/20/23 01:47*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/16/23 15:08*	*08/20/23 01:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**133**		5.02		mg/Kg			08/12/23 03:56	1

Client Sample ID: PH07

Lab Sample ID: 890-5063-14
Matrix: Solid
Date Collected: 08/07/23 14:30
Date Received: 08/09/23 08:15
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 05:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 05:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 05:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/16/23 13:37	08/17/23 05:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 05:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/16/23 13:37	08/17/23 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/16/23 13:37*	*08/17/23 05:12*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/16/23 13:37*	*08/17/23 05:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/16/23 15:08	08/20/23 02:08	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/16/23 15:08	08/20/23 02:08	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/16/23 15:08	08/20/23 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*08/16/23 15:08*	*08/20/23 02:08*	*1*
o-Terphenyl	*106*		*70 - 130*	*08/16/23 15:08*	*08/20/23 02:08*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH07

Lab Sample ID: 890-5063-14
Matrix: Solid
Date Collected: 08/07/23 14:30
Date Received: 08/09/23 08:15
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		4.98		mg/Kg			08/12/23 04:18	1

Client Sample ID: PH08

Lab Sample ID: 890-5063-15
Matrix: Solid
Date Collected: 08/07/23 14:40
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 05:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 05:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 05:32	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/16/23 13:37	08/17/23 05:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/16/23 13:37	08/17/23 05:32	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/16/23 13:37	08/17/23 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*08/16/23 13:37*	*08/17/23 05:32*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/16/23 13:37*	*08/17/23 05:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**51.2**		50.2		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/16/23 15:08	08/20/23 02:29	1
Diesel Range Organics (Over C10-C28)	**51.2**		50.2		mg/Kg		08/16/23 15:08	08/20/23 02:29	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/16/23 15:08	08/20/23 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*08/16/23 15:08*	*08/20/23 02:29*	*1*
o-Terphenyl	*103*		*70 - 130*	*08/16/23 15:08*	*08/20/23 02:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**128**		4.96		mg/Kg			08/12/23 04:25	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH08

Lab Sample ID: 890-5063-16
Matrix: Solid
Date Collected: 08/07/23 14:50
Date Received: 08/09/23 08:15
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 05:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 05:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 05:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/16/23 13:37	08/17/23 05:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 05:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/16/23 13:37	08/17/23 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*08/16/23 13:37*	*08/17/23 05:53*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/16/23 13:37*	*08/17/23 05:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**51.6**		50.4		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/16/23 15:08	08/20/23 02:50	1
Diesel Range Organics (Over C10-C28)	**51.6**		50.4		mg/Kg		08/16/23 15:08	08/20/23 02:50	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/16/23 15:08	08/20/23 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*08/16/23 15:08*	*08/20/23 02:50*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/16/23 15:08*	*08/20/23 02:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**155**		4.96		mg/Kg			08/12/23 04:32	1

Client Sample ID: PH09

Lab Sample ID: 890-5063-17
Matrix: Solid
Date Collected: 08/07/23 15:00
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 06:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 06:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 06:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/16/23 13:37	08/17/23 06:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/16/23 13:37	08/17/23 06:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/16/23 13:37	08/17/23 06:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*08/16/23 13:37*	*08/17/23 06:14*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH09

Lab Sample ID: 890-5063-17
Matrix: Solid
Date Collected: 08/07/23 15:00
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/16/23 13:37*	*08/17/23 06:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**53.8**		49.8		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/16/23 15:08	08/20/23 03:11	1
Diesel Range Organics (Over C10-C28)	**53.8**		49.8		mg/Kg		08/16/23 15:08	08/20/23 03:11	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/16/23 15:08	08/20/23 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*119*		*70 - 130*	*08/16/23 15:08*	*08/20/23 03:11*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/16/23 15:08*	*08/20/23 03:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**98.0**		5.02		mg/Kg			08/12/23 04:39	1

Client Sample ID: PH09

Lab Sample ID: 890-5063-18
Matrix: Solid
Date Collected: 08/07/23 15:10
Date Received: 08/09/23 08:15
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/16/23 13:37	08/17/23 06:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/16/23 13:37	08/17/23 06:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/16/23 13:37	08/17/23 06:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/16/23 13:37	08/17/23 06:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/16/23 13:37	08/17/23 06:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/16/23 13:37	08/17/23 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/16/23 13:37*	*08/17/23 06:34*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/16/23 13:37*	*08/17/23 06:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**62.3**		50.2		mg/Kg			08/21/23 11:32	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH09

Lab Sample ID: 890-5063-18
Matrix: Solid
Date Collected: 08/07/23 15:10
Date Received: 08/09/23 08:15
Sample Depth: 4

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/16/23 15:08	08/20/23 03:32	1
Diesel Range Organics (Over C10-C28)	**62.3**		50.2		mg/Kg		08/16/23 15:08	08/20/23 03:32	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/16/23 15:08	08/20/23 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*08/16/23 15:08*	*08/20/23 03:32*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/16/23 15:08*	*08/20/23 03:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**113**		4.95		mg/Kg			08/12/23 04:46	1

Client Sample ID: PH10

Lab Sample ID: 890-5063-19
Matrix: Solid
Date Collected: 08/07/23 15:20
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 06:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 06:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 06:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/16/23 13:37	08/17/23 06:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 06:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/16/23 13:37	08/17/23 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*08/16/23 13:37*	*08/17/23 06:55*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/16/23 13:37*	*08/17/23 06:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**56.6**		50.5		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/16/23 15:08	08/20/23 03:54	1
Diesel Range Organics (Over C10-C28)	**56.6**		50.5		mg/Kg		08/16/23 15:08	08/20/23 03:54	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/16/23 15:08	08/20/23 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*08/16/23 15:08*	*08/20/23 03:54*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/16/23 15:08*	*08/20/23 03:54*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH10
Lab Sample ID: 890-5063-19
Matrix: Solid
Date Collected: 08/07/23 15:20
Date Received: 08/09/23 08:15
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		4.99		mg/Kg			08/12/23 04:54	1

Client Sample ID: PH10
Lab Sample ID: 890-5063-20
Matrix: Solid
Date Collected: 08/07/23 15:30
Date Received: 08/09/23 08:15
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 07:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 07:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 07:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/16/23 13:37	08/17/23 07:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/17/23 07:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/16/23 13:37	08/17/23 07:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/16/23 13:37*	*08/17/23 07:15*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/16/23 13:37*	*08/17/23 07:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/17/23 09:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**74.8**		49.6		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/16/23 15:08	08/20/23 04:15	1
Diesel Range Organics (Over C10-C28)	**74.8**		49.6		mg/Kg		08/16/23 15:08	08/20/23 04:15	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/16/23 15:08	08/20/23 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*08/16/23 15:08*	*08/20/23 04:15*	*1*
o-Terphenyl	*102*		*70 - 130*	*08/16/23 15:08*	*08/20/23 04:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		4.97		mg/Kg			08/12/23 05:01	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5063-1	PH01	83	98
890-5063-1 MS	PH01	93	105
890-5063-1 MSD	PH01	91	106
890-5063-2	PH01	87	108
890-5063-3	PH02	95	112
890-5063-4	PH02	91	107
890-5063-5	PH03	89	105
890-5063-6	PH03	96	106
890-5063-7	PH04	87	114
890-5063-8	PH04	87	104
890-5063-9	PH05	94	108
890-5063-10	PH05	93	106
890-5063-11	PH06	92	97
890-5063-12	PH06	97	108
890-5063-13	PH07	94	105
890-5063-14	PH07	101	106
890-5063-15	PH08	91	102
890-5063-16	PH08	96	106
890-5063-17	PH09	100	109
890-5063-18	PH09	93	103
890-5063-19	PH10	90	103
890-5063-20	PH10	104	109
LCS 880-60387/1-A	Lab Control Sample	97	108
LCSD 880-60387/2-A	Lab Control Sample Dup	94	106
MB 880-60350/8	Method Blank	75	95
MB 880-60387/5-A	Method Blank	76	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5063-1	PH01	237 S1+	204 S1+
890-5063-2	PH01	128	107
890-5063-3	PH02	120	103
890-5063-4	PH02	120	101
890-5063-4 MS	PH02	114	90
890-5063-4 MSD	PH02	114	87
890-5063-5	PH03	120	102
890-5063-6	PH03	237 S1+	200 S1+
890-5063-7	PH04	123	111
890-5063-8	PH04	118	102
890-5063-9	PH05	124	109
890-5063-10	PH05	137 S1+	119
890-5063-11	PH06	138 S1+	121

Surrogate Summary

Client: Etech Environmental & Safety Solutions Job ID: 890-5063-1
Project/Site: WEU Federal D Battery SDG: Lea County NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
890-5063-12	PH06	143 S1+	124								
890-5063-13	PH07	132 S1+	112								
890-5063-14	PH07	125	106								
890-5063-15	PH08	122	103								
890-5063-16	PH08	118	99								
890-5063-17	PH09	119	101								
890-5063-18	PH09	118	99								
890-5063-19	PH10	125	105								
890-5063-20	PH10	121	102								
LCS 880-60390/2-A	Lab Control Sample	119	107								
LCSD 880-60390/3-A	Lab Control Sample Dup	142 S1+	126								
MB 880-60390/1-A	Method Blank	155 S1+	136 S1+								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60350/8
Matrix: Solid
Analysis Batch: 60350

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			08/16/23 12:12	1
Toluene	<0.00200	U	0.00200		mg/Kg			08/16/23 12:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			08/16/23 12:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			08/16/23 12:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			08/16/23 12:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			08/16/23 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*		*08/16/23 12:12*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*		*08/16/23 12:12*	*1*

Lab Sample ID: MB 880-60387/5-A
Matrix: Solid
Analysis Batch: 60350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/16/23 23:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/16/23 23:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/16/23 23:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/23 13:37	08/16/23 23:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/23 13:37	08/16/23 23:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/23 13:37	08/16/23 23:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*08/16/23 13:37*	*08/16/23 23:22*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/16/23 13:37*	*08/16/23 23:22*	*1*

Lab Sample ID: LCS 880-60387/1-A
Matrix: Solid
Analysis Batch: 60350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60387

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09844		mg/Kg		98	70 - 130		
Toluene			0.100	0.09954		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.08718		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.1871		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.09537		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-60387/2-A
Matrix: Solid
Analysis Batch: 60350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60387

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09926		mg/Kg		99	70 - 130	1	35

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-60387/2-A
Matrix: Solid
Analysis Batch: 60350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60387

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09721		mg/Kg		97	70 - 130	2	35
Ethylbenzene			0.100	0.08370		mg/Kg		84	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1774		mg/Kg		89	70 - 130	5	35
o-Xylene			0.100	0.09073		mg/Kg		91	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-5063-1 MS
Matrix: Solid
Analysis Batch: 60350

Client Sample ID: PH01
Prep Type: Total/NA
Prep Batch: 60387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.07984		mg/Kg		80	70 - 130
Toluene	<0.00199	U	0.0996	0.07808		mg/Kg		78	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.06012	F1	mg/Kg		60	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1248	F1	mg/Kg		63	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.06094	F1	mg/Kg		61	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-5063-1 MSD
Matrix: Solid
Analysis Batch: 60350

Client Sample ID: PH01
Prep Type: Total/NA
Prep Batch: 60387

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.08486		mg/Kg		84	70 - 130	6	35
Toluene	<0.00199	U	0.101	0.07902		mg/Kg		78	70 - 130	1	35
Ethylbenzene	<0.00199	U F1	0.101	0.05998	F1	mg/Kg		59	70 - 130	0	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1226	F1	mg/Kg		61	70 - 130	2	35
o-Xylene	<0.00199	U F1	0.101	0.06042	F1	mg/Kg		60	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

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

Lab Sample ID: MB 880-60390/1-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/23 15:08	08/19/23 19:18	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-60390/1-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/23 15:08	08/19/23 19:18	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/23 15:08	08/19/23 19:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*155*	*S1+*	*70 - 130*	*08/16/23 15:08*	*08/19/23 19:18*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*08/16/23 15:08*	*08/19/23 19:18*	*1*

Lab Sample ID: LCS 880-60390/2-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60390

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	920.0		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	974.1		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: LCSD 880-60390/3-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60390

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	946.8		mg/Kg		95	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1050		mg/Kg		105	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*142*	*S1+*	*70 - 130*
o-Terphenyl	*126*		*70 - 130*

Lab Sample ID: 890-5063-4 MS
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: PH02
Prep Type: Total/NA
Prep Batch: 60390

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1000	1171		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U	1000	963.4		mg/Kg		94	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

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

Lab Sample ID: 890-5063-4 MSD
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: PH02
Prep Type: Total/NA
Prep Batch: 60390

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1000	1189		mg/Kg		115	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.6	U	1000	984.3		mg/Kg		96	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59872/1-A
Matrix: Solid
Analysis Batch: 60016

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/12/23 01:26	1

Lab Sample ID: LCS 880-59872/2-A
Matrix: Solid
Analysis Batch: 60016

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.9		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-59872/3-A
Matrix: Solid
Analysis Batch: 60016

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	260.7		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-5063-1 MS
Matrix: Solid
Analysis Batch: 60016

Client Sample ID: PH01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	226	F1	250	382.2	F1	mg/Kg		63	90 - 110

Lab Sample ID: 890-5063-1 MSD
Matrix: Solid
Analysis Batch: 60016

Client Sample ID: PH01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	226	F1	250	379.4	F1	mg/Kg		61	90 - 110	1	20

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-5063-11 MS
Matrix: Solid
Analysis Batch: 60016

Client Sample ID: PH06
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	219	F1	250	386.4	F1	mg/Kg		67	90 - 110		

Lab Sample ID: 890-5063-11 MSD
Matrix: Solid
Analysis Batch: 60016

Client Sample ID: PH06
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	219	F1	250	386.5	F1	mg/Kg		67	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

GC VOA

Analysis Batch: 60350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5063-1	PH01	Total/NA	Solid	8021B	60387
890-5063-2	PH01	Total/NA	Solid	8021B	60387
890-5063-3	PH02	Total/NA	Solid	8021B	60387
890-5063-4	PH02	Total/NA	Solid	8021B	60387
890-5063-5	PH03	Total/NA	Solid	8021B	60387
890-5063-6	PH03	Total/NA	Solid	8021B	60387
890-5063-7	PH04	Total/NA	Solid	8021B	60387
890-5063-8	PH04	Total/NA	Solid	8021B	60387
890-5063-9	PH05	Total/NA	Solid	8021B	60387
890-5063-10	PH05	Total/NA	Solid	8021B	60387
890-5063-11	PH06	Total/NA	Solid	8021B	60387
890-5063-12	PH06	Total/NA	Solid	8021B	60387
890-5063-13	PH07	Total/NA	Solid	8021B	60387
890-5063-14	PH07	Total/NA	Solid	8021B	60387
890-5063-15	PH08	Total/NA	Solid	8021B	60387
890-5063-16	PH08	Total/NA	Solid	8021B	60387
890-5063-17	PH09	Total/NA	Solid	8021B	60387
890-5063-18	PH09	Total/NA	Solid	8021B	60387
890-5063-19	PH10	Total/NA	Solid	8021B	60387
890-5063-20	PH10	Total/NA	Solid	8021B	60387
MB 880-60350/8	Method Blank	Total/NA	Solid	8021B	
MB 880-60387/5-A	Method Blank	Total/NA	Solid	8021B	60387
LCS 880-60387/1-A	Lab Control Sample	Total/NA	Solid	8021B	60387
LCSD 880-60387/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60387
890-5063-1 MS	PH01	Total/NA	Solid	8021B	60387
890-5063-1 MSD	PH01	Total/NA	Solid	8021B	60387

Prep Batch: 60387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5063-1	PH01	Total/NA	Solid	5035	
890-5063-2	PH01	Total/NA	Solid	5035	
890-5063-3	PH02	Total/NA	Solid	5035	
890-5063-4	PH02	Total/NA	Solid	5035	
890-5063-5	PH03	Total/NA	Solid	5035	
890-5063-6	PH03	Total/NA	Solid	5035	
890-5063-7	PH04	Total/NA	Solid	5035	
890-5063-8	PH04	Total/NA	Solid	5035	
890-5063-9	PH05	Total/NA	Solid	5035	
890-5063-10	PH05	Total/NA	Solid	5035	
890-5063-11	PH06	Total/NA	Solid	5035	
890-5063-12	PH06	Total/NA	Solid	5035	
890-5063-13	PH07	Total/NA	Solid	5035	
890-5063-14	PH07	Total/NA	Solid	5035	
890-5063-15	PH08	Total/NA	Solid	5035	
890-5063-16	PH08	Total/NA	Solid	5035	
890-5063-17	PH09	Total/NA	Solid	5035	
890-5063-18	PH09	Total/NA	Solid	5035	
890-5063-19	PH10	Total/NA	Solid	5035	
890-5063-20	PH10	Total/NA	Solid	5035	
MB 880-60387/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60387/1-A	Lab Control Sample	Total/NA	Solid	5035	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 60387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-60387/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5063-1 MS	PH01	Total/NA	Solid	5035	
890-5063-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 60441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5063-1	PH01	Total/NA	Solid	Total BTEX	
890-5063-2	PH01	Total/NA	Solid	Total BTEX	
890-5063-3	PH02	Total/NA	Solid	Total BTEX	
890-5063-4	PH02	Total/NA	Solid	Total BTEX	
890-5063-5	PH03	Total/NA	Solid	Total BTEX	
890-5063-6	PH03	Total/NA	Solid	Total BTEX	
890-5063-7	PH04	Total/NA	Solid	Total BTEX	
890-5063-8	PH04	Total/NA	Solid	Total BTEX	
890-5063-9	PH05	Total/NA	Solid	Total BTEX	
890-5063-10	PH05	Total/NA	Solid	Total BTEX	
890-5063-11	PH06	Total/NA	Solid	Total BTEX	
890-5063-12	PH06	Total/NA	Solid	Total BTEX	
890-5063-13	PH07	Total/NA	Solid	Total BTEX	
890-5063-14	PH07	Total/NA	Solid	Total BTEX	
890-5063-15	PH08	Total/NA	Solid	Total BTEX	
890-5063-16	PH08	Total/NA	Solid	Total BTEX	
890-5063-17	PH09	Total/NA	Solid	Total BTEX	
890-5063-18	PH09	Total/NA	Solid	Total BTEX	
890-5063-19	PH10	Total/NA	Solid	Total BTEX	
890-5063-20	PH10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5063-1	PH01	Total/NA	Solid	8015NM Prep	
890-5063-2	PH01	Total/NA	Solid	8015NM Prep	
890-5063-3	PH02	Total/NA	Solid	8015NM Prep	
890-5063-4	PH02	Total/NA	Solid	8015NM Prep	
890-5063-5	PH03	Total/NA	Solid	8015NM Prep	
890-5063-6	PH03	Total/NA	Solid	8015NM Prep	
890-5063-7	PH04	Total/NA	Solid	8015NM Prep	
890-5063-8	PH04	Total/NA	Solid	8015NM Prep	
890-5063-9	PH05	Total/NA	Solid	8015NM Prep	
890-5063-10	PH05	Total/NA	Solid	8015NM Prep	
890-5063-11	PH06	Total/NA	Solid	8015NM Prep	
890-5063-12	PH06	Total/NA	Solid	8015NM Prep	
890-5063-13	PH07	Total/NA	Solid	8015NM Prep	
890-5063-14	PH07	Total/NA	Solid	8015NM Prep	
890-5063-15	PH08	Total/NA	Solid	8015NM Prep	
890-5063-16	PH08	Total/NA	Solid	8015NM Prep	
890-5063-17	PH09	Total/NA	Solid	8015NM Prep	
890-5063-18	PH09	Total/NA	Solid	8015NM Prep	
890-5063-19	PH10	Total/NA	Solid	8015NM Prep	
890-5063-20	PH10	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 60390 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60390/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60390/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60390/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5063-4 MS	PH02	Total/NA	Solid	8015NM Prep	
890-5063-4 MSD	PH02	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5063-1	PH01	Total/NA	Solid	8015B NM	60390
890-5063-2	PH01	Total/NA	Solid	8015B NM	60390
890-5063-3	PH02	Total/NA	Solid	8015B NM	60390
890-5063-4	PH02	Total/NA	Solid	8015B NM	60390
890-5063-5	PH03	Total/NA	Solid	8015B NM	60390
890-5063-6	PH03	Total/NA	Solid	8015B NM	60390
890-5063-7	PH04	Total/NA	Solid	8015B NM	60390
890-5063-8	PH04	Total/NA	Solid	8015B NM	60390
890-5063-9	PH05	Total/NA	Solid	8015B NM	60390
890-5063-10	PH05	Total/NA	Solid	8015B NM	60390
890-5063-11	PH06	Total/NA	Solid	8015B NM	60390
890-5063-12	PH06	Total/NA	Solid	8015B NM	60390
890-5063-13	PH07	Total/NA	Solid	8015B NM	60390
890-5063-14	PH07	Total/NA	Solid	8015B NM	60390
890-5063-15	PH08	Total/NA	Solid	8015B NM	60390
890-5063-16	PH08	Total/NA	Solid	8015B NM	60390
890-5063-17	PH09	Total/NA	Solid	8015B NM	60390
890-5063-18	PH09	Total/NA	Solid	8015B NM	60390
890-5063-19	PH10	Total/NA	Solid	8015B NM	60390
890-5063-20	PH10	Total/NA	Solid	8015B NM	60390
MB 880-60390/1-A	Method Blank	Total/NA	Solid	8015B NM	60390
LCS 880-60390/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60390
LCSD 880-60390/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60390
890-5063-4 MS	PH02	Total/NA	Solid	8015B NM	60390
890-5063-4 MSD	PH02	Total/NA	Solid	8015B NM	60390

Analysis Batch: 60721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5063-1	PH01	Total/NA	Solid	8015 NM	
890-5063-2	PH01	Total/NA	Solid	8015 NM	
890-5063-3	PH02	Total/NA	Solid	8015 NM	
890-5063-4	PH02	Total/NA	Solid	8015 NM	
890-5063-5	PH03	Total/NA	Solid	8015 NM	
890-5063-6	PH03	Total/NA	Solid	8015 NM	
890-5063-7	PH04	Total/NA	Solid	8015 NM	
890-5063-8	PH04	Total/NA	Solid	8015 NM	
890-5063-9	PH05	Total/NA	Solid	8015 NM	
890-5063-10	PH05	Total/NA	Solid	8015 NM	
890-5063-11	PH06	Total/NA	Solid	8015 NM	
890-5063-12	PH06	Total/NA	Solid	8015 NM	
890-5063-13	PH07	Total/NA	Solid	8015 NM	
890-5063-14	PH07	Total/NA	Solid	8015 NM	
890-5063-15	PH08	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 60721 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5063-16	PH08	Total/NA	Solid	8015 NM	
890-5063-17	PH09	Total/NA	Solid	8015 NM	
890-5063-18	PH09	Total/NA	Solid	8015 NM	
890-5063-19	PH10	Total/NA	Solid	8015 NM	
890-5063-20	PH10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5063-1	PH01	Soluble	Solid	DI Leach	
890-5063-2	PH01	Soluble	Solid	DI Leach	
890-5063-3	PH02	Soluble	Solid	DI Leach	
890-5063-4	PH02	Soluble	Solid	DI Leach	
890-5063-5	PH03	Soluble	Solid	DI Leach	
890-5063-6	PH03	Soluble	Solid	DI Leach	
890-5063-7	PH04	Soluble	Solid	DI Leach	
890-5063-8	PH04	Soluble	Solid	DI Leach	
890-5063-9	PH05	Soluble	Solid	DI Leach	
890-5063-10	PH05	Soluble	Solid	DI Leach	
890-5063-11	PH06	Soluble	Solid	DI Leach	
890-5063-12	PH06	Soluble	Solid	DI Leach	
890-5063-13	PH07	Soluble	Solid	DI Leach	
890-5063-14	PH07	Soluble	Solid	DI Leach	
890-5063-15	PH08	Soluble	Solid	DI Leach	
890-5063-16	PH08	Soluble	Solid	DI Leach	
890-5063-17	PH09	Soluble	Solid	DI Leach	
890-5063-18	PH09	Soluble	Solid	DI Leach	
890-5063-19	PH10	Soluble	Solid	DI Leach	
890-5063-20	PH10	Soluble	Solid	DI Leach	
MB 880-59872/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59872/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59872/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5063-1 MS	PH01	Soluble	Solid	DI Leach	
890-5063-1 MSD	PH01	Soluble	Solid	DI Leach	
890-5063-11 MS	PH06	Soluble	Solid	DI Leach	
890-5063-11 MSD	PH06	Soluble	Solid	DI Leach	

Analysis Batch: 60016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5063-1	PH01	Soluble	Solid	300.0	59872
890-5063-2	PH01	Soluble	Solid	300.0	59872
890-5063-3	PH02	Soluble	Solid	300.0	59872
890-5063-4	PH02	Soluble	Solid	300.0	59872
890-5063-5	PH03	Soluble	Solid	300.0	59872
890-5063-6	PH03	Soluble	Solid	300.0	59872
890-5063-7	PH04	Soluble	Solid	300.0	59872
890-5063-8	PH04	Soluble	Solid	300.0	59872
890-5063-9	PH05	Soluble	Solid	300.0	59872
890-5063-10	PH05	Soluble	Solid	300.0	59872
890-5063-11	PH06	Soluble	Solid	300.0	59872

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 60016 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5063-12	PH06	Soluble	Solid	300.0	59872
890-5063-13	PH07	Soluble	Solid	300.0	59872
890-5063-14	PH07	Soluble	Solid	300.0	59872
890-5063-15	PH08	Soluble	Solid	300.0	59872
890-5063-16	PH08	Soluble	Solid	300.0	59872
890-5063-17	PH09	Soluble	Solid	300.0	59872
890-5063-18	PH09	Soluble	Solid	300.0	59872
890-5063-19	PH10	Soluble	Solid	300.0	59872
890-5063-20	PH10	Soluble	Solid	300.0	59872
MB 880-59872/1-A	Method Blank	Soluble	Solid	300.0	59872
LCS 880-59872/2-A	Lab Control Sample	Soluble	Solid	300.0	59872
LCSD 880-59872/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59872
890-5063-1 MS	PH01	Soluble	Solid	300.0	59872
890-5063-1 MSD	PH01	Soluble	Solid	300.0	59872
890-5063-11 MS	PH06	Soluble	Solid	300.0	59872
890-5063-11 MSD	PH06	Soluble	Solid	300.0	59872

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH01

Lab Sample ID: 890-5063-1

Date Collected: 08/07/23 12:20

Matrix: Solid

Date Received: 08/09/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/16/23 23:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 21:28	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 01:47	SMC	EET MID

Client Sample ID: PH01

Lab Sample ID: 890-5063-2

Date Collected: 08/07/23 12:30

Matrix: Solid

Date Received: 08/09/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 00:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 21:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 02:09	SMC	EET MID

Client Sample ID: PH02

Lab Sample ID: 890-5063-3

Date Collected: 08/07/23 12:40

Matrix: Solid

Date Received: 08/09/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 00:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 22:12	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 02:16	SMC	EET MID

Client Sample ID: PH02

Lab Sample ID: 890-5063-4

Date Collected: 08/07/23 12:50

Matrix: Solid

Date Received: 08/09/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 00:45	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH02

Lab Sample ID: 890-5063-4
Matrix: Solid
Date Collected: 08/07/23 12:50
Date Received: 08/09/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 20:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 02:23	SMC	EET MID

Client Sample ID: PH03

Lab Sample ID: 890-5063-5
Matrix: Solid
Date Collected: 08/07/23 13:00
Date Received: 08/09/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 01:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 22:34	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 02:30	SMC	EET MID

Client Sample ID: PH03

Lab Sample ID: 890-5063-6
Matrix: Solid
Date Collected: 08/07/23 13:10
Date Received: 08/09/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 01:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 22:56	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 02:52	SMC	EET MID

Client Sample ID: PH04

Lab Sample ID: 890-5063-7
Matrix: Solid
Date Collected: 08/07/23 13:20
Date Received: 08/09/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 01:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	60609	08/19/23 23:17	SM	EET MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH04
Date Collected: 08/07/23 13:20
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5063-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	60016	08/12/23 02:59	SMC	EET MID

Client Sample ID: PH04
Date Collected: 08/07/23 13:30
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5063-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 02:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 23:39	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 03:06	SMC	EET MID

Client Sample ID: PH05
Date Collected: 08/07/23 13:40
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5063-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 02:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/20/23 00:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 03:13	SMC	EET MID

Client Sample ID: PH05
Date Collected: 08/07/23 13:50
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5063-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 02:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/20/23 00:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 03:20	SMC	EET MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH06
Date Collected: 08/07/23 14:00
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5063-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 04:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/20/23 01:05	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 03:28	SMC	EET MID

Client Sample ID: PH06
Date Collected: 08/07/23 14:10
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5063-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 04:31	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/20/23 01:26	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 03:49	SMC	EET MID

Client Sample ID: PH07
Date Collected: 08/07/23 14:20
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5063-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 04:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/20/23 01:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 03:56	SMC	EET MID

Client Sample ID: PH07
Date Collected: 08/07/23 14:30
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5063-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 05:12	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH07

Lab Sample ID: 890-5063-14
Matrix: Solid
Date Collected: 08/07/23 14:30
Date Received: 08/09/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/20/23 02:08	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 04:18	SMC	EET MID

Client Sample ID: PH08

Lab Sample ID: 890-5063-15
Matrix: Solid
Date Collected: 08/07/23 14:40
Date Received: 08/09/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 05:32	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/20/23 02:29	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 04:25	SMC	EET MID

Client Sample ID: PH08

Lab Sample ID: 890-5063-16
Matrix: Solid
Date Collected: 08/07/23 14:50
Date Received: 08/09/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 05:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/20/23 02:50	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 04:32	SMC	EET MID

Client Sample ID: PH09

Lab Sample ID: 890-5063-17
Matrix: Solid
Date Collected: 08/07/23 15:00
Date Received: 08/09/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 06:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/20/23 03:11	SM	EET MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Client Sample ID: PH09
Date Collected: 08/07/23 15:00
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5063-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 04:39	SMC	EET MID

Client Sample ID: PH09
Date Collected: 08/07/23 15:10
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5063-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 06:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/20/23 03:32	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 04:46	SMC	EET MID

Client Sample ID: PH10
Date Collected: 08/07/23 15:20
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5063-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 06:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/20/23 03:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 04:54	SMC	EET MID

Client Sample ID: PH10
Date Collected: 08/07/23 15:30
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5063-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	60387	08/16/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60350	08/17/23 07:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60441	08/17/23 09:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			60721	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	60390	08/16/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/20/23 04:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59872	08/10/23 15:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60016	08/12/23 05:01	SMC	EET MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-5063-1
Project/Site: WEU Federal D Battery
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5063-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5063-1	PH01	Solid	08/07/23 12:20	08/09/23 08:15	0.5
890-5063-2	PH01	Solid	08/07/23 12:30	08/09/23 08:15	4
890-5063-3	PH02	Solid	08/07/23 12:40	08/09/23 08:15	0.5
890-5063-4	PH02	Solid	08/07/23 12:50	08/09/23 08:15	4
890-5063-5	PH03	Solid	08/07/23 13:00	08/09/23 08:15	0.5
890-5063-6	PH03	Solid	08/07/23 13:10	08/09/23 08:15	4
890-5063-7	PH04	Solid	08/07/23 13:20	08/09/23 08:15	0.5
890-5063-8	PH04	Solid	08/07/23 13:30	08/09/23 08:15	4
890-5063-9	PH05	Solid	08/07/23 13:40	08/09/23 08:15	0.5
890-5063-10	PH05	Solid	08/07/23 13:50	08/09/23 08:15	4
890-5063-11	PH06	Solid	08/07/23 14:00	08/09/23 08:15	0.5
890-5063-12	PH06	Solid	08/07/23 14:10	08/09/23 08:15	4
890-5063-13	PH07	Solid	08/07/23 14:20	08/09/23 08:15	0.5
890-5063-14	PH07	Solid	08/07/23 14:30	08/09/23 08:15	4
890-5063-15	PH08	Solid	08/07/23 14:40	08/09/23 08:15	0.5
890-5063-16	PH08	Solid	08/07/23 14:50	08/09/23 08:15	4
890-5063-17	PH09	Solid	08/07/23 15:00	08/09/23 08:15	0.5
890-5063-18	PH09	Solid	08/07/23 15:10	08/09/23 08:15	4
890-5063-19	PH10	Solid	08/07/23 15:20	08/09/23 08:15	0.5
890-5063-20	PH10	Solid	08/07/23 15:30	08/09/23 08:15	4

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 3

Project Manager:	Erick Herrera	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	
Address:	1300 W County Rd 100	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	(281)777-4152	Email:	erick@etechenv.com, joseph@etechenv.com

Work Order Comments

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

Project Name:	WEU Federal D Battery	Turn Around	
Project Number:	18342	☑ Routine ☐ Rush	
Project Location:	Lea County, New Mexico	Due Date:	5 TAT
Sampler's Name:	Edyte Konan	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.6
Total Containers:		Corrected Temperature:	3.4

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX - EPA METHOD 8021B	TPH - EPA METHOD 8015M/D	CHLORIDE - EPA METHOD 300.0	Sample Comments
PH01	s	8.7.2023	12:20	0.5'	G	1		X	X	X	Incident ID:
PH01	s	8.7.2023	12:30	4'	G	1		X	X	X	nAPP2321448004
PH02	s	8.7.2023	12:40	0.5'	G	1		X	X	X	
PH02	s	8.7.2023	12:50	4'	G	1		X	X	X	
PH03	s	8.7.2023	13:00	0.5'	G	1		X	X	X	
PH03	s	8.7.2023	13:10	4'	G	1		X	X	X	
PH04	s	8.7.2023	13:20	0.5'	G	1		X	X	X	
PH04	s	8.7.2023	13:30	4'	G	1		X	X	X	
PH05	s	8.7.2023	13:40	0.5'	G	1		X	X	X	

890-5063 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.9.23 815	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 3

Project Manager:	Erick Herrera	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	
Address:	1300 W County Rd 100	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	(281)777-4152	Email:	erick@etechenv.com, joseph@etechenv.com

Work Order Comments

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

Project Name:	WEU Federal D Battery	Turn Around	
Project Number:	18342	☑ Routine ☐ Rush	
Project Location:	Lea County, New Mexico	Due Date:	5 TAT
Sampler's Name:	Edyte Konan	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX - EPA METHOD 8021B	TPH - EPA METHOD 8015M/D	CHLORIDE - EPA METHOD 300.0	Sample Comments
PH05	s	8.7.2023	13:50	4'	G	1		X	X	X	Incident ID:
PH06	s	8.7.2023	14:00	0.5'	G	1		X	X	X	nAPP2321448004
PH06	s	8.7.2023	14:10	4'	G	1		X	X	X	
PH07	s	8.7.2023	14:20	0.5'	G	1		X	X	X	
PH07	s	8.7.2023	14:30	4'	G	1		X	X	X	
PH08	s	8.7.2023	14:40	0.5'	G	1		X	X	X	
PH08	s	8.7.2023	14:50	4'	G	1		X	X	X	
PH09	s	8.7.2023	15:00	0.5'	G	1		X	X	X	
PH09	s	8.7.2023	15:10	4'	G	1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.9.23 815	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

eurofins | Environment Testing Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 3

Project Manager:	Erick Herrera	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	
Address:	1300 W County Rd 100	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	(281)777-4152	Email:	erick@etechenv.com, joseph@etechenv.com

Work Order Comments

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

Project Name:	WEU Federal D Battery	Turn Around	
Project Number:	18342	☑ Routine ☐ Rush	
Project Location:	Lea County, New Mexico	Due Date:	5 TAT
Sampler's Name:	Edyte Konan	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.6
Total Containers:		Corrected Temperature:	3.4

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX - EPA METHOD 8021B	TPH - EPA METHOD 8015M/D	CHLORIDE - EPA METHOD 300.0	Sample Comments
PH10	s	8.7.2023	15:20	0.5'	G	1		X	X	X	Incident ID:
PH10	s	8.7.2023	15:30	4'	G	1		X	X	X	nAPP2321448004

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8-9-23 815	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax. 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-1419 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 1 of 3
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-5063-1
Address: 1211 W Florida Ave	Due Date Requested: 8/15/2023			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: WEU Federal D Battery	Project #: 88000073			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B - NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M - Hexane, N None, O - AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V - MCAA, W pH 4-5, Y - Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc Mid - BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
PH01 (890-5063-1)	8/7/23	12 20 Mountain		Solid			X	X	X	X	X	1	
PH01 (890-5063-2)	8/7/23	12 30 Mountain		Solid			X	X	X	X	X	1	
PH02 (890-5063-3)	8/7/23	12 40 Mountain		Solid			X	X	X	X	X	1	
PH02 (890-5063-4)	8/7/23	12 50 Mountain		Solid			X	X	X	X	X	1	
PH03 (890-5063-5)	8/7/23	13 00 Mountain		Solid			X	X	X	X	X	1	
PH03 (890-5063-6)	8/7/23	13 10 Mountain		Solid			X	X	X	X	X	1	
PH04 (890-5063-7)	8/7/23	13 20 Mountain		Solid			X	X	X	X	X	1	
PH04 (890-5063-8)	8/7/23	13 30 Mountain		Solid			X	X	X	X	X	1	
PH05 (890-5063-9)	8/7/23	13 40 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1300	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-5063-1
SDG Number: Lea County NM

Login Number: 5063
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-5063-1
SDG Number: Lea County NM

Login Number: 5063
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/10/23 12:57 PM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Erick Herrera
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Generated 9/14/2023 10:44:54 AM Revision 1

JOB DESCRIPTION

WEU Federal D Battery
SDG NUMBER Lea County NM

JOB NUMBER

890-5058-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

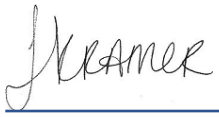
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
9/14/2023 10:44:54 AM
Revision 1

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

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Laboratory Job ID: 890-5058-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5058-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5058-1
SDG: Lea County NM

Job ID: 890-5058-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5058-1

REVISION

The report being provided is a revision of the original report sent on 8/21/2023. The report (revision 1) is being revised due to Extra COCs in final report, revision needed.

Receipt
The sample was received on 8/9/2023 8:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: PH03 (890-5058-1).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60389 and analytical batch 880-60609 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60609/21), (CCV 880-60609/6) and (LCS 880-60389/2-A). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5058-1
SDG: Lea County NM

Client Sample ID: PH03

Date Collected: 08/07/23 13:15
Date Received: 08/09/23 08:15
Sample Depth: 6

Lab Sample ID: 890-5058-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/18/23 09:22	08/19/23 03:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/18/23 09:22	08/19/23 03:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/18/23 09:22	08/19/23 03:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/18/23 09:22	08/19/23 03:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/18/23 09:22	08/19/23 03:05	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/18/23 09:22	08/19/23 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/18/23 09:22*	*08/19/23 03:05*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/18/23 09:22*	*08/19/23 03:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/21/23 11:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/16/23 14:53	08/19/23 12:05	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/16/23 14:53	08/19/23 12:05	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/16/23 14:53	08/19/23 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*08/16/23 14:53*	*08/19/23 12:05*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/16/23 14:53*	*08/19/23 12:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**195**		4.98		mg/Kg			08/11/23 16:08	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5058-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5057-A-1-D MS	Matrix Spike	120	95
890-5057-A-1-E MSD	Matrix Spike Duplicate	106	101
890-5058-1	PH03	99	93
LCS 880-60548/1-A	Lab Control Sample	121	97
LCSD 880-60548/2-A	Lab Control Sample Dup	104	90
MB 880-60474/5-A	Method Blank	102	119
MB 880-60548/5-A	Method Blank	105	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-31775-A-1-D MS	Matrix Spike	104	79
880-31775-A-1-E MSD	Matrix Spike Duplicate	105	78
890-5058-1	PH03	122	105
LCS 880-60389/2-A	Lab Control Sample	131 S1+	120
LCSD 880-60389/3-A	Lab Control Sample Dup	130	113
MB 880-60389/1-A	Method Blank	156 S1+	145 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5058-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60474/5-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60474

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/23 13:33	08/18/23 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/17/23 13:33*	*08/18/23 12:08*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*08/17/23 13:33*	*08/18/23 12:08*	*1*

Lab Sample ID: MB 880-60548/5-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/23 09:22	08/19/23 02:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/18/23 09:22*	*08/19/23 02:16*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/18/23 09:22*	*08/19/23 02:16*	*1*

Lab Sample ID: LCS 880-60548/1-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1225		mg/Kg		123	70 - 130
Toluene	0.100	0.1073		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1199		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2283		mg/Kg		114	70 - 130
o-Xylene	0.100	0.09771		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-60548/2-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1169		mg/Kg		117	70 - 130	5	35

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5058-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-60548/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60526 — **Prep Batch: 60548**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1062		mg/Kg		106	70 - 130	1	35
Ethylbenzene			0.100	0.1139		mg/Kg		114	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2143		mg/Kg		107	70 - 130	6	35
o-Xylene			0.100	0.09471		mg/Kg		95	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-5057-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60526 — **Prep Batch: 60548**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1229		mg/Kg		123	70 - 130
Toluene	<0.00199	U	0.0996	0.1054		mg/Kg		105	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1206		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2210		mg/Kg		111	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09354		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-5057-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60526 — **Prep Batch: 60548**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1286		mg/Kg		128	70 - 130	5	35
Toluene	<0.00199	U	0.101	0.1117		mg/Kg		110	70 - 130	6	35
Ethylbenzene	<0.00199	U	0.101	0.1155		mg/Kg		115	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2033		mg/Kg		101	70 - 130	8	35
o-Xylene	<0.00199	U	0.101	0.09153		mg/Kg		91	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-60389/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60609 — **Prep Batch: 60389**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5058-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-60389/1-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*156*	*S1+*	*70 - 130*	*08/16/23 14:52*	*08/19/23 07:38*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*08/16/23 14:52*	*08/19/23 07:38*	*1*

Lab Sample ID: LCS 880-60389/2-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60389

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1041		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1099		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*120*		*70 - 130*

Lab Sample ID: LCSD 880-60389/3-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60389

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	962.4		mg/Kg		96	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	953.3		mg/Kg		95	70 - 130	14	20

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

Lab Sample ID: 880-31775-A-1-D MS
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1166		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.2	U	998	968.0		mg/Kg		97	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5058-1
SDG: Lea County NM

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

Lab Sample ID: 880-31775-A-1-E MSD
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 60389

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1174		mg/Kg		113	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.2	U	998	956.5		mg/Kg		96	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59870/1-A
Matrix: Solid
Analysis Batch: 59955

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/11/23 13:35	1

Lab Sample ID: LCS 880-59870/2-A
Matrix: Solid
Analysis Batch: 59955

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.6		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-59870/3-A
Matrix: Solid
Analysis Batch: 59955

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	261.0		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 890-5058-1 MS
Matrix: Solid
Analysis Batch: 59955

Client Sample ID: PH03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	195		249	439.3		mg/Kg		98	90 - 110

Lab Sample ID: 890-5058-1 MSD
Matrix: Solid
Analysis Batch: 59955

Client Sample ID: PH03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	195		249	439.8		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5058-1
SDG: Lea County NM

GC VOA

Prep Batch: 60474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60474/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 60526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5058-1	PH03	Total/NA	Solid	8021B	60548
MB 880-60474/5-A	Method Blank	Total/NA	Solid	8021B	60474
MB 880-60548/5-A	Method Blank	Total/NA	Solid	8021B	60548
LCS 880-60548/1-A	Lab Control Sample	Total/NA	Solid	8021B	60548
LCSD 880-60548/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60548
890-5057-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	60548
890-5057-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	60548

Prep Batch: 60548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5058-1	PH03	Total/NA	Solid	5035	
MB 880-60548/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60548/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60548/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5057-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-5057-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 60707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5058-1	PH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5058-1	PH03	Total/NA	Solid	8015NM Prep	
MB 880-60389/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60389/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31775-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31775-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5058-1	PH03	Total/NA	Solid	8015B NM	60389
MB 880-60389/1-A	Method Blank	Total/NA	Solid	8015B NM	60389
LCS 880-60389/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60389
LCSD 880-60389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60389
880-31775-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	60389
880-31775-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	60389

Analysis Batch: 60716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5058-1	PH03	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5058-1
SDG: Lea County NM

HPLC/IC

Leach Batch: 59870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5058-1	PH03	Soluble	Solid	DI Leach	
MB 880-59870/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59870/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59870/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5058-1 MS	PH03	Soluble	Solid	DI Leach	
890-5058-1 MSD	PH03	Soluble	Solid	DI Leach	

Analysis Batch: 59955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5058-1	PH03	Soluble	Solid	300.0	59870
MB 880-59870/1-A	Method Blank	Soluble	Solid	300.0	59870
LCS 880-59870/2-A	Lab Control Sample	Soluble	Solid	300.0	59870
LCSD 880-59870/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59870
890-5058-1 MS	PH03	Soluble	Solid	300.0	59870
890-5058-1 MSD	PH03	Soluble	Solid	300.0	59870

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5058-1
SDG: Lea County NM

Client Sample ID: PH03
Date Collected: 08/07/23 13:15
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5058-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	60548	08/18/23 09:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60526	08/19/23 03:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60707	08/21/23 11:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60716	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 12:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59870	08/10/23 14:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59955	08/11/23 16:08	SMC	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-5058-1
Project/Site: WEU Federal D Battery
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5058-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5058-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5058-1	PH03	Solid	08/07/23 13:15	08/09/23 08:15	6

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Erick Herrera	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	
Address:	1300 W County Rd 100	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	(281)777-4152	Email:	erick@etechenv.com, joseph@etechenv.com

Work Order Comments

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

Project Name:	WEU Federal D Battery	Turn Around	
Project Number:	18342	☑ Routine ☐ Rush	
Project Location:	Lea County, New Mexico	Due Date:	5 TAT
Sampler's Name:	Edyte Konan	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	NM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.6
Total Containers:		Corrected Temperature:	3.4

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX - EPA METHOD 8021B	TPH - EPA METHOD 8015M/D	CHLORIDE - EPA METHOD 300.0
PH03	s	8.7.2023	13:15	6'	G	1		X	X	X

Parameters

ANALYSIS REQUEST

890-5058 Chain of Custody

Sample Comments

Incident ID:
nAPP2321448004

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.9.23 815	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-5058-1
SDG Number: Lea County NM

Login Number: 5058
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-5058-1
SDG Number: Lea County NM

Login Number: 5058
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/10/23 12:57 PM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Erick Herrera
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Generated 8/21/2023 11:38:48 AM

JOB DESCRIPTION

WEU Federal D Battery
SDG NUMBER Lea County NM

JOB NUMBER

890-5057-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

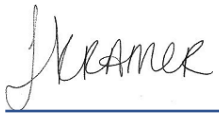
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
8/21/2023 11:38:48 AM

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

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Laboratory Job ID: 890-5057-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5057-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5057-1
SDG: Lea County NM

Job ID: 890-5057-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5057-1

Receipt
The sample was received on 8/9/2023 8:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: PH04 (890-5057-1).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60389 and analytical batch 880-60609 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60609/21), (CCV 880-60609/6) and (LCS 880-60389/2-A). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5057-1
SDG: Lea County NM

Client Sample ID: PH04

Date Collected: 08/07/23 13:35
Date Received: 08/09/23 08:15
Sample Depth: 6

Lab Sample ID: 890-5057-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/18/23 09:22	08/19/23 02:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/18/23 09:22	08/19/23 02:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/18/23 09:22	08/19/23 02:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/18/23 09:22	08/19/23 02:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/18/23 09:22	08/19/23 02:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/18/23 09:22	08/19/23 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/18/23 09:22*	*08/19/23 02:45*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*08/18/23 09:22*	*08/19/23 02:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/21/23 11:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/16/23 14:53	08/19/23 11:44	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/16/23 14:53	08/19/23 11:44	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/16/23 14:53	08/19/23 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*08/16/23 14:53*	*08/19/23 11:44*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/16/23 14:53*	*08/19/23 11:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**284**		5.00		mg/Kg			08/11/23 15:59	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5057-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5057-1	PH04	97	85
890-5057-1 MS	PH04	120	95
890-5057-1 MSD	PH04	106	101
LCS 880-60548/1-A	Lab Control Sample	121	97
LCSD 880-60548/2-A	Lab Control Sample Dup	104	90
MB 880-60474/5-A	Method Blank	102	119
MB 880-60548/5-A	Method Blank	105	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31775-A-1-D MS	Matrix Spike	104	79
880-31775-A-1-E MSD	Matrix Spike Duplicate	105	78
890-5057-1	PH04	115	99
LCS 880-60389/2-A	Lab Control Sample	131 S1+	120
LCSD 880-60389/3-A	Lab Control Sample Dup	130	113
MB 880-60389/1-A	Method Blank	156 S1+	145 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5057-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60474/5-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60474

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/23 13:33	08/18/23 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/17/23 13:33*	*08/18/23 12:08*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*08/17/23 13:33*	*08/18/23 12:08*	*1*

Lab Sample ID: MB 880-60548/5-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/23 09:22	08/19/23 02:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/18/23 09:22*	*08/19/23 02:16*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/18/23 09:22*	*08/19/23 02:16*	*1*

Lab Sample ID: LCS 880-60548/1-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1225		mg/Kg		123	70 - 130
Toluene	0.100	0.1073		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1199		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2283		mg/Kg		114	70 - 130
o-Xylene	0.100	0.09771		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-60548/2-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1169		mg/Kg		117	70 - 130	5	35

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5057-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-60548/2-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60548

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1062		mg/Kg		106	70 - 130	1	35
Ethylbenzene			0.100	0.1139		mg/Kg		114	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2143		mg/Kg		107	70 - 130	6	35
o-Xylene			0.100	0.09471		mg/Kg		95	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-5057-1 MS
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: PH04
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1229		mg/Kg		123	70 - 130
Toluene	<0.00199	U	0.0996	0.1054		mg/Kg		105	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1206		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2210		mg/Kg		111	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09354		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-5057-1 MSD
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: PH04
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1286		mg/Kg		128	70 - 130	5	35
Toluene	<0.00199	U	0.101	0.1117		mg/Kg		110	70 - 130	6	35
Ethylbenzene	<0.00199	U	0.101	0.1155		mg/Kg		115	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2033		mg/Kg		101	70 - 130	8	35
o-Xylene	<0.00199	U	0.101	0.09153		mg/Kg		91	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-60389/1-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5057-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-60389/1-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*156*	*S1+*	*70 - 130*	*08/16/23 14:52*	*08/19/23 07:38*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*08/16/23 14:52*	*08/19/23 07:38*	*1*

Lab Sample ID: LCS 880-60389/2-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60389

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1041		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1099		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*120*		*70 - 130*

Lab Sample ID: LCSD 880-60389/3-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60389

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	962.4		mg/Kg		96	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	953.3		mg/Kg		95	70 - 130	14	20

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

Lab Sample ID: 880-31775-A-1-D MS
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1166		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.2	U	998	968.0		mg/Kg		97	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5057-1
SDG: Lea County NM

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

Lab Sample ID: 880-31775-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60609 — **Prep Batch: 60389**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1174		mg/Kg		113	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.2	U	998	956.5		mg/Kg		96	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59870/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/11/23 13:35	1

Lab Sample ID: LCS 880-59870/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.6		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-59870/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	261.0		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 890-5058-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	195		249	439.3		mg/Kg		98	90 - 110

Lab Sample ID: 890-5058-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	195		249	439.8		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5057-1
SDG: Lea County NM

GC VOA

Prep Batch: 60474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60474/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 60526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5057-1	PH04	Total/NA	Solid	8021B	60548
MB 880-60474/5-A	Method Blank	Total/NA	Solid	8021B	60474
MB 880-60548/5-A	Method Blank	Total/NA	Solid	8021B	60548
LCS 880-60548/1-A	Lab Control Sample	Total/NA	Solid	8021B	60548
LCSD 880-60548/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60548
890-5057-1 MS	PH04	Total/NA	Solid	8021B	60548
890-5057-1 MSD	PH04	Total/NA	Solid	8021B	60548

Prep Batch: 60548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5057-1	PH04	Total/NA	Solid	5035	
MB 880-60548/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60548/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60548/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5057-1 MS	PH04	Total/NA	Solid	5035	
890-5057-1 MSD	PH04	Total/NA	Solid	5035	

Analysis Batch: 60706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5057-1	PH04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5057-1	PH04	Total/NA	Solid	8015NM Prep	
MB 880-60389/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60389/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31775-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31775-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5057-1	PH04	Total/NA	Solid	8015B NM	60389
MB 880-60389/1-A	Method Blank	Total/NA	Solid	8015B NM	60389
LCS 880-60389/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60389
LCSD 880-60389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60389
880-31775-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	60389
880-31775-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	60389

Analysis Batch: 60715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5057-1	PH04	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5057-1
SDG: Lea County NM

HPLC/IC

Leach Batch: 59870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5057-1	PH04	Soluble	Solid	DI Leach	
MB 880-59870/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59870/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59870/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5058-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5058-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 59955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5057-1	PH04	Soluble	Solid	300.0	59870
MB 880-59870/1-A	Method Blank	Soluble	Solid	300.0	59870
LCS 880-59870/2-A	Lab Control Sample	Soluble	Solid	300.0	59870
LCSD 880-59870/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59870
890-5058-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	59870
890-5058-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	59870

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5057-1
SDG: Lea County NM

Client Sample ID: PH04

Date Collected: 08/07/23 13:35
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5057-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	60548	08/18/23 09:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60526	08/19/23 02:45	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60706	08/21/23 11:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60715	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 11:44	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59870	08/10/23 14:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59955	08/11/23 15:59	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-5057-1
Project/Site: WEU Federal D Battery
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5057-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5057-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5057-1	PH04	Solid	08/07/23 13:35	08/09/23 08:15	6

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Erick Herrera	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	
Address:	1300 W County Rd 100	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	(281)777-4152	Email:	erick@etechenv.com, joseph@etechenv.com

Work Order Comments

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

Project Name:	WEU Federal D Battery	Turn Around	
Project Number:	18342	☑ Routine ☐ Rush	
Project Location:	Lea County, New Mexico	Due Date:	5 TAT
Sampler's Name:	Edyte Konan	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TM007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.6	
Total Containers:		Corrected Temperature:	3.4	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX - EPA METHOD 8021B	TPH - EPA METHOD 8015M/D	CHLORIDE - EPA METHOD 300.0
PH04	s	8.7.2023	13:35	6'	G	1		X	X	X

Parameters

ANALYSIS REQUEST

890-5057 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident ID:
nAPP2321448004

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.9.23 815	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020 2

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-1419 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-5057-1
Address: 1211 W Florida Ave	Due Date Requested: 8/15/2023			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: WEU Federal D Battery	Project #: 88000073			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I - Ice, J DI Water, K EDTA, L EDA, M Hexane, N - None, O AsNaO2, P - Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y - Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc Mid - BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X							
PH04 (890-5057-1)	8/7/23	13 35 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: △ Yes △ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-5057-1
SDG Number: Lea County NM

Login Number: 5057
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-5057-1
SDG Number: Lea County NM

Login Number: 5057
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/10/23 12:57 PM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Erick Herrera
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Generated 8/21/2023 11:43:32 AM

JOB DESCRIPTION

WEU Federal D Battery
SDG NUMBER Lea County NM

JOB NUMBER

890-5060-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

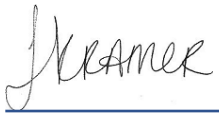
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
8/21/2023 11:43:32 AM

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

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Laboratory Job ID: 890-5060-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5060-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5060-1
SDG: Lea County NM

Job ID: 890-5060-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5060-1

Receipt
The sample was received on 8/9/2023 8:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: FS01 (890-5060-1).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60389 and analytical batch 880-60609 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60609/21), (CCV 880-60609/6) and (LCS 880-60389/2-A). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5060-1
SDG: Lea County NM

Client Sample ID: FS01

Date Collected: 08/07/23 12:00
Date Received: 08/09/23 08:15
Sample Depth: 6

Lab Sample ID: 890-5060-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 03:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 03:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 03:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/18/23 09:22	08/19/23 03:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 03:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/18/23 09:22	08/19/23 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*08/18/23 09:22*	*08/19/23 03:46*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/18/23 09:22*	*08/19/23 03:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/21/23 11:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/16/23 14:53	08/19/23 12:27	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/16/23 14:53	08/19/23 12:27	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/16/23 14:53	08/19/23 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*08/16/23 14:53*	*08/19/23 12:27*	*1*
o-Terphenyl	*110*		*70 - 130*	*08/16/23 14:53*	*08/19/23 12:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**224**		5.02		mg/Kg			08/11/23 16:44	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5060-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5057-A-1-D MS	Matrix Spike	120	95
890-5057-A-1-E MSD	Matrix Spike Duplicate	106	101
890-5060-1	FS01	96	92
LCS 880-60548/1-A	Lab Control Sample	121	97
LCSD 880-60548/2-A	Lab Control Sample Dup	104	90
MB 880-60474/5-A	Method Blank	102	119
MB 880-60548/5-A	Method Blank	105	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31775-A-1-D MS	Matrix Spike	104	79
880-31775-A-1-E MSD	Matrix Spike Duplicate	105	78
890-5060-1	FS01	124	110
LCS 880-60389/2-A	Lab Control Sample	131 S1+	120
LCSD 880-60389/3-A	Lab Control Sample Dup	130	113
MB 880-60389/1-A	Method Blank	156 S1+	145 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5060-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60474/5-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60474

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/23 13:33	08/18/23 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/17/23 13:33*	*08/18/23 12:08*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*08/17/23 13:33*	*08/18/23 12:08*	*1*

Lab Sample ID: MB 880-60548/5-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/23 09:22	08/19/23 02:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/18/23 09:22*	*08/19/23 02:16*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/18/23 09:22*	*08/19/23 02:16*	*1*

Lab Sample ID: LCS 880-60548/1-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1225		mg/Kg		123	70 - 130
Toluene	0.100	0.1073		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1199		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2283		mg/Kg		114	70 - 130
o-Xylene	0.100	0.09771		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-60548/2-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1169		mg/Kg		117	70 - 130	5	35

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5060-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-60548/2-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60548

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1062		mg/Kg		106	70 - 130	1	35
Ethylbenzene			0.100	0.1139		mg/Kg		114	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2143		mg/Kg		107	70 - 130	6	35
o-Xylene			0.100	0.09471		mg/Kg		95	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-5057-A-1-D MS
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1229		mg/Kg		123	70 - 130
Toluene	<0.00199	U	0.0996	0.1054		mg/Kg		105	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1206		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2210		mg/Kg		111	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09354		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-5057-A-1-E MSD
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1286		mg/Kg		128	70 - 130	5	35
Toluene	<0.00199	U	0.101	0.1117		mg/Kg		110	70 - 130	6	35
Ethylbenzene	<0.00199	U	0.101	0.1155		mg/Kg		115	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2033		mg/Kg		101	70 - 130	8	35
o-Xylene	<0.00199	U	0.101	0.09153		mg/Kg		91	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-60389/1-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5060-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-60389/1-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*156*	*S1+*	*70 - 130*	*08/16/23 14:52*	*08/19/23 07:38*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*08/16/23 14:52*	*08/19/23 07:38*	*1*

Lab Sample ID: LCS 880-60389/2-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60389

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1041		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1099		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*120*		*70 - 130*

Lab Sample ID: LCSD 880-60389/3-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60389

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	962.4		mg/Kg		96	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	953.3		mg/Kg		95	70 - 130	14	20

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

Lab Sample ID: 880-31775-A-1-D MS
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1166		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.2	U	998	968.0		mg/Kg		97	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5060-1
SDG: Lea County NM

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

Lab Sample ID: 880-31775-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60609 — **Prep Batch: 60389**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1174		mg/Kg		113	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.2	U	998	956.5		mg/Kg		96	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59870/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/11/23 13:35	1

Lab Sample ID: LCS 880-59870/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.6		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-59870/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	261.0		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 890-5058-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	195		249	439.3		mg/Kg		98	90 - 110

Lab Sample ID: 890-5058-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	195		249	439.8		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5060-1
SDG: Lea County NM

GC VOA

Prep Batch: 60474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60474/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 60526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5060-1	FS01	Total/NA	Solid	8021B	60548
MB 880-60474/5-A	Method Blank	Total/NA	Solid	8021B	60474
MB 880-60548/5-A	Method Blank	Total/NA	Solid	8021B	60548
LCS 880-60548/1-A	Lab Control Sample	Total/NA	Solid	8021B	60548
LCSD 880-60548/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60548
890-5057-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	60548
890-5057-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	60548

Prep Batch: 60548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5060-1	FS01	Total/NA	Solid	5035	
MB 880-60548/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60548/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60548/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5057-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-5057-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 60709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5060-1	FS01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5060-1	FS01	Total/NA	Solid	8015NM Prep	
MB 880-60389/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60389/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31775-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31775-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5060-1	FS01	Total/NA	Solid	8015B NM	60389
MB 880-60389/1-A	Method Blank	Total/NA	Solid	8015B NM	60389
LCS 880-60389/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60389
LCSD 880-60389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60389
880-31775-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	60389
880-31775-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	60389

Analysis Batch: 60717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5060-1	FS01	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5060-1
SDG: Lea County NM

HPLC/IC

Leach Batch: 59870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5060-1	FS01	Soluble	Solid	DI Leach	
MB 880-59870/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59870/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59870/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5058-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5058-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 59955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5060-1	FS01	Soluble	Solid	300.0	59870
MB 880-59870/1-A	Method Blank	Soluble	Solid	300.0	59870
LCS 880-59870/2-A	Lab Control Sample	Soluble	Solid	300.0	59870
LCSD 880-59870/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59870
890-5058-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	59870
890-5058-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	59870

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5060-1
SDG: Lea County NM

Client Sample ID: FS01
Date Collected: 08/07/23 12:00
Date Received: 08/09/23 08:15

Lab Sample ID: 890-5060-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	60548	08/18/23 09:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60526	08/19/23 03:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60709	08/21/23 11:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60717	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 12:27	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59870	08/10/23 14:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59955	08/11/23 16:44	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-5060-1
Project/Site: WEU Federal D Battery
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5060-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5060-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5060-1	FS01	Solid	08/07/23 12:00	08/09/23 08:15	6

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Erick Herrera	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	
Address:	1300 W County Rd 100	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	(281)777-4152	Email:	erick@etechenv.com, joseph@etechenv.com

Work Order Comments

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

Project Name:	WEU Federal D Battery	Turn Around	
Project Number:	18342	☑ Routine ☐ Rush	
Project Location:	Lea County, New Mexico	Due Date:	5 TAT
Sampler's Name:	Edyte Konan	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.6
Total Containers:		Corrected Temperature:	3.4

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX - EPA METHOD 8021B	TPH - EPA METHOD 8015M/D	CHLORIDE - EPA METHOD 300.0
FS01	s	8.7.2023	12:00	6'	C	1		X	X	X

Parameters

ANALYSIS REQUEST

890-5060 Chain of Custody

Sample Comments

Incident ID:
nAPP2321448004

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.9.23 815	2		
3			4		
5			6		

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-1419 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-5060-1
Address: 1211 W Florida Ave	Due Date Requested: 8/15/2023			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: WEU Federal D Battery	Project #: 88000073			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B NaOH, C - Zn Acetate, D Nitric Acid, E - NaHSO4, F MeOH, G - Amchlor, H Ascorbic Acid, I - Ice, J DI Water, K EDTA, L EDA, M Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U - Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc Mid - BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note.
			Preservation Code:										
FS01 (890-5060-1)	8/7/23	12 00 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-5060-1
SDG Number: Lea County NM

Login Number: 5060
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-5060-1
SDG Number: Lea County NM

Login Number: 5060
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/10/23 12:57 PM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Erick Herrera
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Generated 8/21/2023 11:43:33 AM

JOB DESCRIPTION

WEU Federal D Battery
SDG NUMBER Lea County NM

JOB NUMBER

890-5059-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

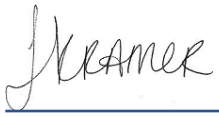
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
8/21/2023 11:43:33 AM

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

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Laboratory Job ID: 890-5059-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5059-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5059-1
SDG: Lea County NM

Job ID: 890-5059-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5059-1

Receipt
The sample was received on 8/9/2023 8:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SW01 (890-5059-1).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60389 and analytical batch 880-60609 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60609/21), (CCV 880-60609/6) and (LCS 880-60389/2-A). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5059-1
SDG: Lea County NM

Client Sample ID: SW01

Date Collected: 08/07/23 12:10
Date Received: 08/09/23 08:15
Sample Depth: 0 - 6

Lab Sample ID: 890-5059-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/18/23 09:22	08/19/23 03:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/18/23 09:22	08/19/23 03:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/18/23 09:22	08/19/23 03:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/18/23 09:22	08/19/23 03:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/18/23 09:22	08/19/23 03:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/18/23 09:22	08/19/23 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/18/23 09:22*	*08/19/23 03:26*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/18/23 09:22*	*08/19/23 03:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/21/23 11:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/21/23 11:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/23 14:53	08/19/23 12:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/23 14:53	08/19/23 12:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/23 14:53	08/19/23 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*08/16/23 14:53*	*08/19/23 12:49*	*1*
o-Terphenyl	*103*		*70 - 130*	*08/16/23 14:53*	*08/19/23 12:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**98.9**		5.04		mg/Kg			08/11/23 16:35	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5059-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5057-A-1-D MS	Matrix Spike	120	95
890-5057-A-1-E MSD	Matrix Spike Duplicate	106	101
890-5059-1	SW01	93	88
LCS 880-60548/1-A	Lab Control Sample	121	97
LCSD 880-60548/2-A	Lab Control Sample Dup	104	90
MB 880-60474/5-A	Method Blank	102	119
MB 880-60548/5-A	Method Blank	105	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-31775-A-1-D MS	Matrix Spike	104	79
880-31775-A-1-E MSD	Matrix Spike Duplicate	105	78
890-5059-1	SW01	118	103
LCS 880-60389/2-A	Lab Control Sample	131 S1+	120
LCSD 880-60389/3-A	Lab Control Sample Dup	130	113
MB 880-60389/1-A	Method Blank	156 S1+	145 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5059-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60474/5-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60474

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/23 13:33	08/18/23 12:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/23 13:33	08/18/23 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/17/23 13:33*	*08/18/23 12:08*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*08/17/23 13:33*	*08/18/23 12:08*	*1*

Lab Sample ID: MB 880-60548/5-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/23 09:22	08/19/23 02:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/23 09:22	08/19/23 02:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/18/23 09:22*	*08/19/23 02:16*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/18/23 09:22*	*08/19/23 02:16*	*1*

Lab Sample ID: LCS 880-60548/1-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1225		mg/Kg		123	70 - 130
Toluene	0.100	0.1073		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1199		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2283		mg/Kg		114	70 - 130
o-Xylene	0.100	0.09771		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-60548/2-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1169		mg/Kg		117	70 - 130	5	35

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5059-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-60548/2-A
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60548

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1062		mg/Kg		106	70 - 130	1	35
Ethylbenzene			0.100	0.1139		mg/Kg		114	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2143		mg/Kg		107	70 - 130	6	35
o-Xylene			0.100	0.09471		mg/Kg		95	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-5057-A-1-D MS
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1229		mg/Kg		123	70 - 130
Toluene	<0.00199	U	0.0996	0.1054		mg/Kg		105	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1206		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2210		mg/Kg		111	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09354		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-5057-A-1-E MSD
Matrix: Solid
Analysis Batch: 60526

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 60548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1286		mg/Kg		128	70 - 130	5	35
Toluene	<0.00199	U	0.101	0.1117		mg/Kg		110	70 - 130	6	35
Ethylbenzene	<0.00199	U	0.101	0.1155		mg/Kg		115	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2033		mg/Kg		101	70 - 130	8	35
o-Xylene	<0.00199	U	0.101	0.09153		mg/Kg		91	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-60389/1-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1

Eurofins Carlsbad

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5059-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-60389/1-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/23 14:52	08/19/23 07:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*156*	*S1+*	*70 - 130*	*08/16/23 14:52*	*08/19/23 07:38*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*08/16/23 14:52*	*08/19/23 07:38*	*1*

Lab Sample ID: LCS 880-60389/2-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60389

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1041		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1099		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*120*		*70 - 130*

Lab Sample ID: LCSD 880-60389/3-A
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 60389

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	962.4		mg/Kg		96	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	953.3		mg/Kg		95	70 - 130	14	20

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

Lab Sample ID: 880-31775-A-1-D MS
Matrix: Solid
Analysis Batch: 60609

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1166		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.2	U	998	968.0		mg/Kg		97	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5059-1
SDG: Lea County NM

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

Lab Sample ID: 880-31775-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 60609 — **Prep Batch: 60389**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1174		mg/Kg		113	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.2	U	998	956.5		mg/Kg		96	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59870/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/11/23 13:35	1

Lab Sample ID: LCS 880-59870/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.6		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-59870/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	261.0		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 890-5058-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	195		249	439.3		mg/Kg		98	90 - 110

Lab Sample ID: 890-5058-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 59955

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	195		249	439.8		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5059-1
SDG: Lea County NM

GC VOA

Prep Batch: 60474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60474/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 60526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5059-1	SW01	Total/NA	Solid	8021B	60548
MB 880-60474/5-A	Method Blank	Total/NA	Solid	8021B	60474
MB 880-60548/5-A	Method Blank	Total/NA	Solid	8021B	60548
LCS 880-60548/1-A	Lab Control Sample	Total/NA	Solid	8021B	60548
LCSD 880-60548/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60548
890-5057-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	60548
890-5057-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	60548

Prep Batch: 60548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5059-1	SW01	Total/NA	Solid	5035	
MB 880-60548/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60548/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60548/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5057-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-5057-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 60708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5059-1	SW01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5059-1	SW01	Total/NA	Solid	8015NM Prep	
MB 880-60389/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60389/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31775-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31775-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5059-1	SW01	Total/NA	Solid	8015B NM	60389
MB 880-60389/1-A	Method Blank	Total/NA	Solid	8015B NM	60389
LCS 880-60389/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60389
LCSD 880-60389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60389
880-31775-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	60389
880-31775-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	60389

Analysis Batch: 60718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5059-1	SW01	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5059-1
SDG: Lea County NM

HPLC/IC

Leach Batch: 59870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5059-1	SW01	Soluble	Solid	DI Leach	
MB 880-59870/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59870/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59870/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5058-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5058-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 59955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5059-1	SW01	Soluble	Solid	300.0	59870
MB 880-59870/1-A	Method Blank	Soluble	Solid	300.0	59870
LCS 880-59870/2-A	Lab Control Sample	Soluble	Solid	300.0	59870
LCSD 880-59870/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59870
890-5058-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	59870
890-5058-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	59870

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 890-5059-1
Project/Site: WEU Federal D Battery
SDG: Lea County NM

Client Sample ID: SW01
Lab Sample ID: 890-5059-1

Date Collected: 08/07/23 12:10
Matrix: Solid

Date Received: 08/09/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	60548	08/18/23 09:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60526	08/19/23 03:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60708	08/21/23 11:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60718	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 12:49	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59870	08/10/23 14:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	59955	08/11/23 16:35	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 890-5059-1
Project/Site: WEU Federal D Battery
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5059-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: WEU Federal D Battery

Job ID: 890-5059-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5059-1	SW01	Solid	08/07/23 12:10	08/09/23 08:15	0 - 6

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Erick Herrera	Bill to: (if different)	
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	
Address:	1300 W County Rd 100	Address:	
City, State ZIP:	Midland, Texas 79711	City, State ZIP:	
Phone:	(281)777-4152	Email:	erick@etechenv.com, joseph@etechenv.com

Work Order Comments

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

Project Name:	WEU Federal D Battery	Turn Around	
Project Number:	18342	☑ Routine ☐ Rush	
Project Location:	Lea County, New Mexico	Due Date:	5 TAT
Sampler's Name:	Edyte Konan	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.6
Total Containers:		Corrected Temperature:	3.4

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX - EPA METHOD 8021B	TPH - EPA METHOD 8015M/D	CHLORIDE - EPA METHOD 300.0
SW01	s	8.7.2023	12:10	0-6'	C	1		X	X	X

890-5059 Chain of Custody

Sample Comments

Incident ID:
nAPP2321448004

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.9.23 815	2		
3			4		
5			6		

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-1419 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-5059-1
Address: 1211 W Florida Ave ,	Due Date Requested: 8/15/2023			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: WEU Federal D Battery	Project #: 88000073			
Site:	SSOW#:			

Preservation Codes

A - HCL, B NaOH, C - Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q - Na2SO3, R Na2S2O3, S - H2SO4, T TSP Dodecahydrate, U - Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc Mid - BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SW01 (890-5059-1)	8/7/23	12 10 Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III, IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time:	Company	Received by	Date/Time	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-5059-1
SDG Number: Lea County NM

Login Number: 5059
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-5059-1
SDG Number: Lea County NM

Login Number: 5059
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/10/23 12:57 PM

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

APPENDIX G

NMOCD Notifications

All,

Forty Acres Energy anticipates conducting confirmation soil sampling activities at the following sites on August 7th and August 11th.

Proposed Dates: August 7, 2023, August 8, 2023, August 9, 2023, August 10, 2023
Proposed Timeframe: 0800 – 1700 hrs.
Site Name: West Eumont Unit Seale Battery
Incident Number: nAPP2222254057

Proposed Dates: August 7, 2023, August 8, 2023, August 9, 2023, August 10, 2023
Proposed Timeframe: 0800 – 1700 hrs.
Site Name: West Eumont Unit GM State Battery
Incident Number: nAPP2228734147

Proposed Dates: August 7, 2023, August 8, 2023, August 9, 2023, August 10, 2023
Proposed Timeframe: 0800 – 1700 hrs.
Site Name: West Eumont Unit 522
Incident Number: nAPP2222156433

Proposed Dates: August 7, 2023, August 8, 2023, August 9, 2023, August 10, 2023
Proposed Timeframe: 0800 – 1700 hrs.
Site Name: West Eumont Federal D Battery
Incident Number: nAPP2321448004

Thanks,

Joseph S. Hernandez
Senior Managing Geologist
eTECH Environmental & Safety Solutions, Inc.
Work: (432) 305-6413
Cell: (281) 702-2329

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 267604

CONDITIONS

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 267604
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	12/21/2023