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

Page 1 of 115 Incident ID nRM2004550944 District RP Facility ID Application ID

Remediation Plan

 ✓ Detailed description of proposed remediation technique ✓ Scaled sitemap with GPS coordinates showing delineation point ✓ Estimated volume of material to be remediated ✓ Closure criteria is to Table 1 specifications subject to 19.15.29.1 ✓ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
✓ 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 rules and regulations all operators are required to report and/or file of which may endanger public health or the environment. The acceptability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local lands are compliance. Printed Name: Chet Stuart Signature: Chet Stuart email: cstuart@contango.com	ertain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:

Remediation Summary & Deferral Request

Contango Oil & Gas, Inc. Kersey State Battery

Eddy County, New Mexico
Unit Letter P, Section 32, Township 17 South, Range 28 East
Latitude 32.78601 North, Longitude 104.19064 West
NMOCD Reference No. nRM2004550944

Prepared By:

Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway Lovington, New Mexico 88260

Ben J. Arguijo

oel WALowry



Midland • San Antonio • Lubbock • Lovington • Lafayette

TABLE OF CONTENTS

	Section
PROJECT INFORMATION	1.0
SITE CHARACTERIZATION	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	3.0
INITIAL SITE ASSESSMENT	4.0
PROPOSED REMEDIATION PLAN.	5.0
REGULATORY APPROVALS & STIPULATIONS	6 . 0
REMEDIATION ACTIVITIES SUMMARY	7.0
RESTORATION, RECLAMATION & RE-VEGETATION PLAN	8.0
DEFERRAL REQUEST	9.0
LIMITATIONS.	10.0
DISTRIBUTION	11.0

FIGURES

Figure 1 - Topographic Map

Figure 2 - Aerial Proximity Map

Figure 3 - Site & Sample Location Map

TABLES

Table 1 - Concentrations of BTEX, TPH & Chloride in Soil

APPENDICES

Appendix A - Depth to Groundwater Information

Appendix B - Field Data & Soil Profile Logs

Appendix C - Laboratory Analytical Reports

Appendix D - Photographic Log

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Contango Oil & Gas, Inc., has prepared this *Remediation Summary & Deferral Request* for the release site known as the Kersey State Battery (henceforth, "Site"). Details of the release are summarized below:

		Locatio	on of Release Sou	rce				
Latitude:	32.78	601	Longitude:	-104.19064				
		Provide	ed GPS are in WGS84 format					
Site Name:		tate Battery	Site Type:	Tank Battery				
Date Release Disco	vered:	2/8/2020	API # (if applica	ble): 30-015-30889				
Unit Letter	Section	Township	Range	County				
P	32	17S	28E	Eddy				
Surface Owner: State Federal Tribal X Private (Name COG Operating, LLC Nature and Volume of Release								
X Crude Oil	Volume	Released (bbls)	1.9	Volume Recovered (bbls) 1				
X Produced War	ter Volume	Released (bbls)	15.2	Volume Recovered (bbls) 7.5				
Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?								
Condensate	Volume	Released (bbls)		Volume Recovered (bbls)				
Natural Gas	Volume	Released (Mcf)		Volume Recovered (Mcf)				
Other (describ	e) Volume/	Weight Released		Volume/Weight Recovered				
Cause of Release: The release was at confined to within			having power, resulting	ng in a tank being over filled. The release was				
		Ir	nitial Response					
X The source of	the release has	been stopped.						
X The impacted a	area has been s	ecured to protect hur	nan health and the env	vironment.				
X Release materi	als have been	contained via the use	of berms or dikes, abs	sorbent pad, or other containment devices				
X All free liquids and recoverable materials have been removed and managed appropriately.								

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on December 21, 2020, a temporary monitor well was drilled on-site to fifty-five (55) feet below ground surface (bgs) in an effort to determine if shallow groundwater is present. Depth to groundwater information is provided in Appendix A. A monitor well drilling log is provided in Appendix B.

What is the shallowest depth to groundwater beneath the area affected by the release?	~110'
Did the release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X 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 X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes X 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 X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production or storage site?	Yes X No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standard for the Site are as follows:

Probable Depth to Groundwater	Constituent	Constituent Method C			
	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg	600 mg/kg	
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg	100 mg/kg	
~110'	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg	-	
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg	50 mg/kg	
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg	10 mg/kg	

^{*} The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas.

4.0 INITIAL SITE ASSESSMENT

On February 25, 2020, Etech conducted an initial site assessment. During the initial site assessment, two (2) hand-augered soil bores (V1 and V2) were advanced within the release margins in an effort to determine the vertical extent of soil impacts. The soil bores were advanced to the point of refusal at approximately two (2) feet bgs. In addition, ten (10) hand-augered soil bores (NH1, NH1B, EH1, EH1B, EH2, EH2B, SH1, SH1B, WH1, and WH1B) were advanced along the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. The soil bores were advanced to depths ranging from three (3) inches to one (1) foot bgs. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, fourteen (14) delineation soil samples (V1 @ Surf., V1 @ 3' - R, V2 @ Surf., V2 @ 2' - R, NHB @ Surf., NHB @ 1', EH1B @ Surf., EH1B @ 1', EH2B @ Surf., EH2B @ 1', SHB @ Surf., SHB @ 1', WHB @ Surf., and WHB @ 1') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. However, additional delineation of soil affected above the NMOCD Reclamation Standard was required, and additional vertical delineation of BTEX and TPH was required in the area characterized by sample point V1. Soil was not affected above NMOCD Closure Criteria beyond two (2) feet bgs in the area characterized by sample point V2.

On March 20, 2020, Etech revisited the Site. During the site visit, a test trench was advanced in the area characterized by sample point V1 in an effort to further investigate the vertical extent of impacted soil. During the advancement of the test trench, two (2) soil samples (V1 @ 3' and V1 @ 4') were collected for submittal to the laboratory for analysis of BTEX and TPH. Laboratory analytical results indicated BTEX and TPH concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standard, and the vertical extent of impacted soil was adequately defined.

5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment and subsequent delineation event, Contango Oil & Gas, Inc., proposed the following remediation activities designed to advance the Site toward an approved closure:

- Utilizing mechanical equipment, excavate impacted soil affected above the NMOCD Closure Criteria in the area characterized by sample points V1 and V2 to estimated depths of three (3) feet and two (2) feet bgs, respectively.
- •Advance the floor and sidewalls of the excavated area until laboratory analytical results indicate BTEX, TPH, and chloride concentrations are below the NMOCD Closure Criteria or to the maximum extent practicable.
- Stockpile excavated soil on-site pending transport to an NMOCD-permitted surface waste facility for disposal.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted "like" material.
- Defer remediation of impacted soil affected above the NMOCD Closure Criteria within the containment area until the facility is decommissioned and abandoned.
- Upon completion of remediation activities, prepare a *Remediation Summary & Deferral Request* detailing remediation activities and laboratory analytical results from confirmation soil samples.

6.0 REGULATORY APPROVALS AND STIPULATIONS

On May 13, 2020, a *Site Assessment Report and Proposed Remediation Workplan & Deferral Request* (henceforth, "Workplan") was submitted to the NMOCD proposing remediation activities designed to advance the Site toward regulatory closure. The Workplan was subsequently approved, with the conditions that the horizontal extent of chloride contamination be delineated to 600 mg/kg or less, all impacted soil affected above the NMOCD Closure Criteria be excavated prior to submittal of an additional deferral request (with the exception of areas where deferral is being requested), and that the exact sample points and justification for deferral of remediation be specified in the request.

Please reference the *Site Assessment Report and Proposed Remediation Workplan & Deferral Request* for additional details regarding site characterization and proposed remediation activities.

7.0 REMEDIATION ACTIVITIES SUMMARY

On December 12, 2020, an investigative soil boring/temporary monitor well was drilled at the Site in an effort to further investigate site characteristics and determine if shallow groundwater was present in the area. The investigative soil bore was advanced to a total depth of approximately fifty-five (55) feet bgs and left open for seventy-two (72) hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil bore or prior to plugging and abandonment. The soil boring log is provided in Appendix B.

On January 21, 2021, Etech commenced remediation activities at the Site. In accordance with the approved Workplan, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. A chloride field test kit and/or olfactory/visual senses were utilized to guide the excavation. The floor and sidewalls of the excavation were advanced to the extent practicable or until field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

On January 25, 2021, Etech collected five (5) confirmation soil samples (NW, E1, E2, SW1, and WW1) from the sidewalls of the excavation. The soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples, with the exception of soil sample E2, which exhibited a TPH concentration that exceeded the NMOCD Closure Criteria.

On January 26, 2021, Etech collected four (4) confirmation soil samples (FL 1 @ 8", FL 2 @ 8", FL 3 @ 8", and FL 4 @ 2') from the floor of the excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. TPH concentrations exceeded the NMOCD Closure Criteria in each of the submitted soil samples, with the exception of soil sample FL4 @ 2'. Additional excavation in the areas characterized by soil samples FL 1 @ 8", FL 2 @ 8", and FL 3 @ 8" was precluded by the presence of the on-site storage tanks and associated pipes and appurtenances adjacent to the excavation.

In accordance with the NMOCD, Etech also collected three (3) soil samples (SP1-D, SP2-D, and WH1-D) inside the containment area to further investigate the horizontal extent of impacted soil and more adequately define the area requiring deferral of remediation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated the western extent of impacted soil was adequately defined.

On February 1, 2021, the excavation was advanced in the area characterized by soil sample E2. Etech collected a confirmation soil sample (E2B) from the sidewall of the excavation and submitted it to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was below the NMOCD Closure Criteria.

In accordance with the NMOCD, Etech also collected four (4) soil samples (ND, ED, SD, and WD) to further investigate the horizontal extent of impacted soil. The soil samples were submitted to the laboratory for analysis of chloride. Laboratory analytical results confirmed that the horizontal extent of chloride contamination had been delineated to less than 600 mg/kg.

The final dimensions of the excavation were approximately 118 feet in length, four (4) to twenty-five (25) feet in width, and eight (8) inches to two (2) feet in depth. During the course of remediation activities, approximately forty (40) cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

A "Site & Sample Location Map" is provided as Figure 3. Soil chemistry data is summarized in Table 1. Field notes and soil profile logs are provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the Site are provided in Appendix D.

8.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

The release was confined to the containment area of an active tank battery facility on a production pad. Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions and compacted/contoured to fit the needs of the facility. Final reclamation and re-vegetation will be conducted upon decommission and abandonment of the facility.

9.0 DEFERRAL REQUEST

Remediation activities were conducted in accordance with an approved Workplan. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated to the extent practicable and transported to an NMOCD-approved disposal facility. Laboratory analytical results from excavation confirmation soil samples indicate concentrations of BTEX and chloride were below the applicable NMOCD Closure Criteria. Due to safety and environmental concerns, impacted soil remaining adjacent to and/or underneath the on-site storage tanks and/or associated pipes and appurtenances in the areas characterized by soil samples FL1 @ 8", FL2 @ 8", FL3 @ 8", SP1-D, and SP2-D will be remediated upon decommission and abandonment of the facility.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Contango Oil & Gas, Inc., provide copies of this *Remediation Summary & Deferral Request* to the appropriate agencies and cease remediation activites at the Site.

10.0 LIMITATIONS

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

This report has been prepared for the benefit of Contango Oil & Gas, Inc. Use of the information contained in this report is prohibited without the consent of Etech and/or Contango Oil & Gas, Inc.

11.0 DISTRIBUTION

Contango Oil & Gas, Inc. 717 Texas Ave. Suite 2900 Houston, TX 77002

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

(Electronic Submission)

Figure 1 Topographic Map

Figure 2 Aerial Proximity Map

Eddy County

Drafted: bja

Checked: jwl

Date:

2/25/21

Potash Mine Workings

Medium/Hight Karst

Riverine

Figure 3 Site & Sample Location Map

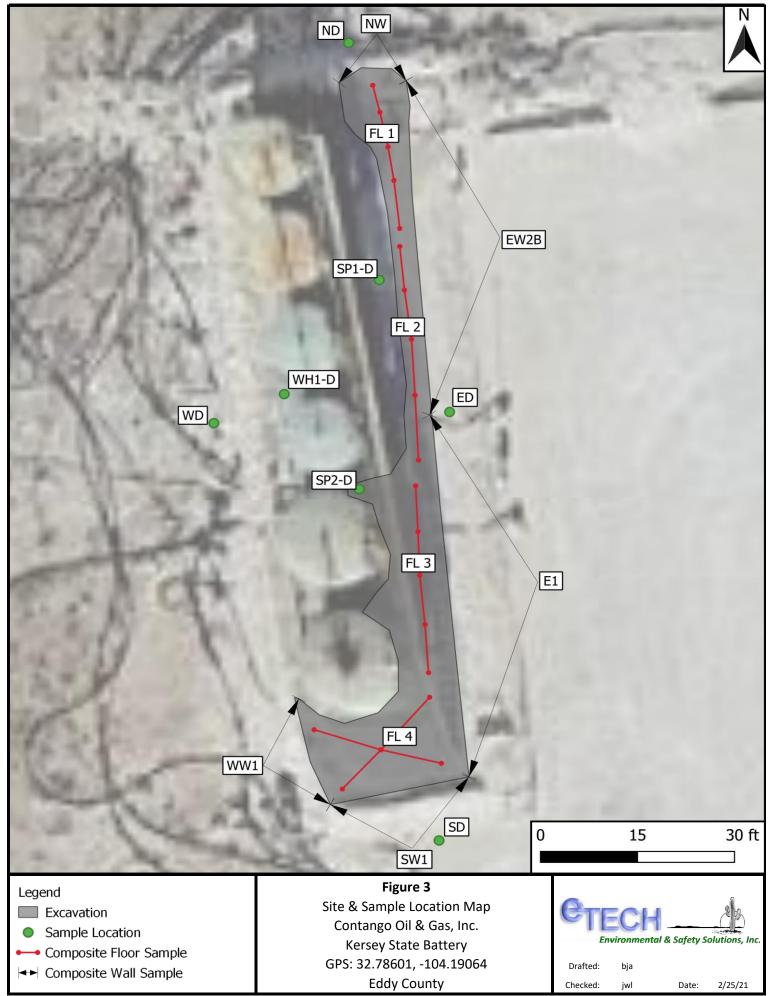


Table 1 Concentrations of BTEX, TPH & Chloride in Soil

					Tabl						
	Concentrations of BTEX, TPH & Chloride in Soil										
	Contango Oil & Gas, Inc.										
	Kersey State Battery										
NMOCD Ref. #: nRM2004550944 NMOCD Closure Criteria 10 50 - 1,000 - 2,500 20,000											•••••
				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard 10 50 100 SW 846 8021B SW 846 8015M Ext.								600			
			G 11	5W 840	5 8021B			GRO +			4500 Cl
Sample ID	Date	Depth	Soil Status	Benzene	BTEX	GRO C ₆ -C ₁₀	DRO C ₁₀ -C ₂₈	DRO	ORO C ₂₈ -C ₃₆	TPH C ₆ -C ₃₆	Chloride
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	C ₆ -C ₂₈	(mg/kg)	(mg/kg)	(mg/kg)
			<u> </u>		Delineation	/Deferral		(mg/kg)			
V1 @ Surf.	2/25/2020	Surf.	Excavated	25.2	604	5,330	17,700	23,000	2,900	25,900	1,340
V1 @ 3' - R	2/25/2020	3' - R	Slough	1.09	83.5	457	2,210	2,670	160	2,830	1,310
V1 @ 3'	3/20/2020	3'	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
V1 @ 4'	3/20/2020	4'	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
V2 @ Surf.	2/25/2020	Surf.	Excavated	13.6	471	2,080	9,990	12,100	1,190	13,300	16.0
V2 @ 2' - R	2/25/2020	2' - R	In-Situ	0.182	6.72	49.4	315	364	32.6	397	400
NHB @ Surf.	2/25/2020	Surf.	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,760
NHB @ 1'	2/25/2020	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	1,500
EH1B @ Surf.	2/25/2020	Surf.	In-Situ	< 0.050	< 0.300	<10.0	354	354	39.9	394	3,960
EH1B @ 1'	2/25/2020	1'	In-Situ	< 0.050	< 0.300	<10.0	794	794	116	910	3,840
EH2B @ Surf.	2/25/2020	Surf.	In-Situ	< 0.050	< 0.300	<10.0	20.4	20.4	<10.0	20.4	5,360
EH2B @ 1'	2/25/2020	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,040
SHB @ Surf.	2/25/2020	Surf.	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,680
SHB @ 1'	2/25/2020	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,880
WHB @ Surf.	2/25/2020	Surf.	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,200
WHB @ 1'	2/25/2020	1'	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,280
SP1-D	1/26/2021	6"	Deferral	< 0.00202	0.0798	<249	19,900	19,900	3,600	23,500	7,940
SP2-D	1/26/2021	8"	Deferral	0.00828	0.0480	<250	22,900	22,900	3,460	26,400	7,680
WH-D	1/26/2021	6"	Deferral		0.167	<49.9	<49.9	<49.9	<49.9	<49.9	4,310
ND	2/1/2021	6"	In-Situ	-	-	-	-	-	-	-	64.0
ED	2/1/2021	6"	In-Situ	-	-	-	-	-	-	-	320
SD	2/1/2021	6"	In-Situ	-	-	-	-	-	-	-	112
WD	2/1/2021	6"	In-Situ	-	-	-	-	-	-	-	80.0
NIXI	1/25/2021	0.011	T G:	0.00200	Excava			.50.0			2.520
NW E1	1/25/2021	0-8"			<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,530
E1	1/25/2021	0-8"	In-Situ			<50.0	<50.0	<50.0	<50.0	<50.0	5,870
EW2P	1/25/2021	0-8"	Excavated In City	<0.00202	<0.00202	<50.0	61.1	61.1	<50.0	61.1	29,100
EW2B SW1	2/1/2021 1/25/2021	0-8"	In-Situ	- <0.00202	-0.00202	- <49.9	- <49.9	- <49.9	- <49.9	- <49.9	2,400
WW1	1/25/2021	0-2'	In-Situ In-Situ			<49.9 <50.0	<49.9 <50.0	<49.9 <50.0	<49.9 <50.0	<49.9 <50.0	9,110
FL 1 @ 8"	1/25/2021	8"		<0.00201		52.3	5,540	<50.0 5,590	900		2,020 4,790
FL 1 @ 8 FL 2 @ 8"	1/26/2021	8"	In-Situ In-Situ		0.254	251	20,900	21,200	2,860	11,800 24,000	7,590
FL 3 @ 8"	1/26/2021	8"	In-Situ			<250	12,000	12,000	1,800	13,800	16,000
FL 4 @ 2'	1/26/2021	2'		<0.00200		<50.0	114	114	<50.0	114	2,530
ILT @ Z	1/20/2021	4	าม-อเเน	<0.00200	0.0314	√50.0	114	114	\J0.0	114	2,330

NOTES:

^{- =} Sample not analyzed for that constituent.

Appendix A Depth to Groundwater Information



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

closed)

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

1 1 2 05 18S 26E

(quarters are smallest to largest) (NAD83 UTM in meters)

577784

(In feet)

POD

QQQ Subbasin County 64 16 4 Sec Tws Rng Code

X

3625988

Water DistanceDepthWellDepthWater Column

95 feet

Average Depth to Water:

Minimum Depth: 95 feet

235

Maximum Depth: 95 feet

Record Count: 1

2/12/20 10:10 AM

POD Number

RA 11857 POD1

UTMNAD83 Radius Search (in meters):

Easting (X): 575790 Radius: 3220 **Northing (Y):** 3627854.28

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

WATER COLUMN/ AVERAGE DEPTH TO

WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** RA 11857 POD1 Q64 Q16 Q4 Sec Tws Rng 1 2 05 18S 26E

 \mathbf{X}

1064

Driller Company:

577784 3625988

Driller License:

DELFORD W. MARTIN

Driller Name: MARTIN, DELFORD

Drill Start Date: 09/25/2012

10/15/2012

Drill Finish Date: PCW Rcv Date:

10/01/2012

Plug Date:

Source: Shallow **Estimated Yield:** 95 GPM

Casing Size:

Log File Date:

Pump Type:

5.00

Pipe Discharge Size:

Depth Well:

235 feet

Depth Water:

95 feet

Water Bearing Stratifications:

Top Bottom Description

130 Sandstone/Gravel/Conglomerate

160

235 Sandstone/Gravel/Conglomerate

Casing Perforations:

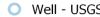
Top Bottom

140 235

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

2/12/20 10:10 AM

POINT OF DIVERSION SUMMARY



1,000-Ft Radius

☐ 0.5-Mi Radius

Kersey State Battery GPS: 32.78601, -104.19064 **Eddy County**

Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date:

2/25/21

Search USGS



National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	▼	United States	▼	GO

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- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs **site_no list** = • 324633104105401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324633104105401 18S.28E.04.32412

Available data for this site Groundwater: Field measurements

GO

Eddy County, New Mexico

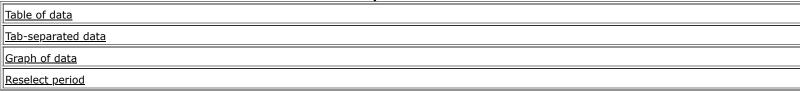
Hydrologic Unit Code 13060011

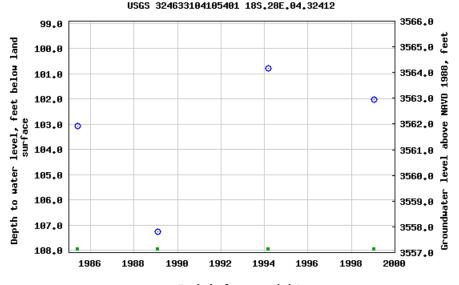
Latitude 32°46'33", Longitude 104°10'54" NAD27

Land-surface elevation 3,665 feet above NAVD88

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats





Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	▼	United States	▼	GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usqs site_no list = 324642104111001

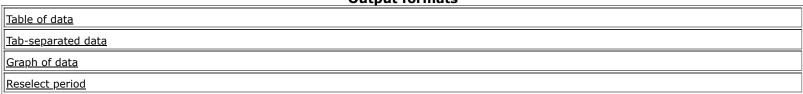
Minimum number of levels = 1

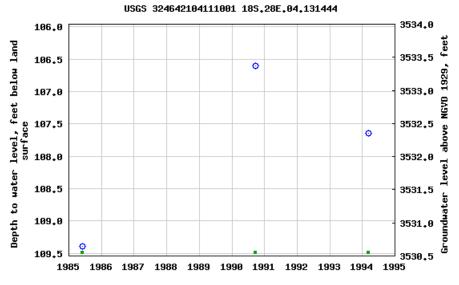
Save file of selected sites to local disk for future upload

USGS 324642104111001 18S.28E.04.131444

Available data for this site Groundwater: Field measurements GO Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°46'42", Longitude 104°11'10" NAD27 Land-surface elevation 3,640 feet above NGVD29 The depth of the well is 145.00 feet below land surface. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats





Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

Released to Imaging: 7/15/2021 8:23:36 AM

Appendix B Field Data & Soil Profile Logs



Sample Log

ate:	2/	Ź
acc.	/ '	_

Project:	Kersey State	e Battery

-104.19064 Project Number: 32.78601 11968 Latitude: Longitude:

Sample ID	PID/Odor		Chloride Conc.	GPS
1H2 @ 0-3"	1/25	9:45	196	
VI @ 0-3"	1/25 1/29	9:40	988	
VI @ 1' VI @ 2'	Vis	9:55	1144	
VI @ 2'	Veg Slight	10:10	664	
EH1 @ 0-3"		10:17	2156	
EH2 @ 0-3" 6H1 @ 8x 0-3"	·-	10:20	7.008	
H1 @ SP 0-3"		10:30	1529	
12 @ \$0-3"	1/25	10:40	<124	
12 @ \$0-3" 12 @ 1°	4/25	18:45	168	
JHT C 500 10-3"	Ye5	10:00	Z736 H+	-2
11 @ 2'8" - R	405	11:10	848	
SH16@0-3"		11:10	2504	
EH26@0-3"		11:20		*
EH Zb @ 1		11:25	7504	
EHZL @1		11:30	2008	
V2@Z'-R	4.05	11:40	236 2244	
WHIL @ 0-34	_	11:45	2244	
NHIL @ 1'	_	11:50	1100	
NHIL @ 0-3"		12:10	1372	
NH 26 @ 1'		12:15	944	
SHIB @ 0-3"		12:25	> 2504	
5H16 6 1		12:30	72504	
		·		
Sample Point = SP #1 @ ## etc			Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Floor = FL #1 etc			Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc		Soil Inter	nded to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Area



Soil Profile

Date: 2/25/25

roject:	Kersey State E	Battery				/
roject Number:		.1968	Latitude:	32.78601	Longitude:	-104.19064
anth (ft. has)				Da	scription	
epth (ft. bgs)	- , 4	(11/	e of onel I rody clay Clay	De	scription	
1 4 7	2 2	Calvon	e / yomes			
2 200	2630	Calilla	1 rochy Clay			
3 40	Refusi	120chy	May			
4		,				
5						
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12						
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16						
17						
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19						
20						
21						
22						
23	1					
24						
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37						
38						
39						
40						
40						



Project:

Project Number:

Sample Log

		Date: 3-20-20	<i>'</i>
Kargey Spare Touch Bothy			
er: /Latitude:	32.7865	Longitude: ~104,19142	.9
	0-7-0		/

	ne to i		
Sample ID	PID/Odor	Chloride Conc.	GPS
Vlai 4F	Light none	B 00 676	
VIOT 4FT	pone	676	
	_		
			
			+
			Resamples= SP #1 @ 5b or SW #1b Stockpile = Stockpile #1 GPS Sample Points, Center of Comp Areas
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Areas



Sample Log

Date:

1/21/21

Project:

Kersey State Battely Aspen 32 State Com #001

Project Number:

12652 pending

Latitude:

32.78792

Longitude:

-104.19439

Sample ID	PID/Odor	Chloride Conc.	GPS
El	none	5768	
E2	none	6260	
Battery	mild	>120	
WWI	none	2120 2128	
NWI	none	3,012	
NW1 SWI	none	9,580	
		7	
F1 67"		1988	
FL2 @211		4328	
FL3 68"		6500	
FL4 @2		7660	
WH-P SPI-D	_	3088	
SPI-D		688	
SP2-D		5528	
EW2B	none	3,012	
ND 6" ED 6" SD 6"	none	148	
ED 6"	none	364	
506"	none	148	
WD6"	none	120	
	10110		
			
		<u> </u>	
:l			

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Logger: Driller: Consultant: **Drilling Method:** Start Date: **End Date:**

Lance Crenshaw Ready Drill, LLC **Etech Environmental** Rotary December 21, 2020

December 21, 2020



Project Name:

Well ID:

Kersey State Battery Location:

Comments: Drilled 55' bore hole to determine no groundwater in

area

Drafted by: Lance Crenshaw

Lat: 32.78601 Long: -104.19064 County: Eddy State: NM

					Long104.19004	State. NIVI
Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
	-	-	•		•	
5	-	-	-	Caliche, Sand Mix	0 0	
	-	-	-			
10	-	-	-	Rock, Caliche		
	-	-	-			
15	-	-	-	Clay	. 0	
	-	-	-			
20	-	-	-	Red Clay, Sand	• •	
	-	-	-			
25	-	-	-	Red Clay, Sand		
	-	-	-		•	
30	-	-	-	Red Clay, Sand		
	-	-	-		8	
35	-	-	-	Red Clay		
	-	-	-			
40	-	-	-	Red Clay		
	-	-	-		_	
45	-	-	-	Red Clay		
	-	-	-			
50	-	-	-	Red Clay	0	
	-	-	-			
55	-	-	-	Red Clay	•	J ,

Appendix C Laboratory Analytical Reports



March 02, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: KERSEY STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/26/20 8:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020

Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 11968 Sample Received By: Tamara Oldaker

A ... - I. ... - - - I D. ... CI/

Project Location: RURAL EDDY - GRIZZLY ENERGY

Sample ID: V1 @ SURFACE (H000612-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	25.2	2.00	02/28/2020	ND	1.88	94.1	2.00	6.03	
Toluene*	191	2.00	02/28/2020	ND	1.90	95.0	2.00	6.11	
Ethylbenzene*	176	2.00	02/28/2020	ND	1.92	95.9	2.00	5.92	
Total Xylenes*	212	6.00	02/28/2020	ND	5.62	93.7	6.00	5.93	
Total BTEX	604	12.0	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	02/28/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5330	50.0	02/29/2020	ND	224	112	200	3.29	
DRO >C10-C28*	17700	50.0	02/29/2020	ND	240	120	200	4.40	
EXT DRO >C28-C36	2900	50.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	394	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	522	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020

Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 11968

Project Location: **RURAL EDDY - GRIZZLY ENERGY**

Sample ID: V1 @ 3' - R (H000612-02)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.09	0.500	03/02/2020	ND	1.88	94.1	2.00	6.03	
Toluene*	17.0	0.500	03/02/2020	ND	1.90	95.0	2.00	6.11	
Ethylbenzene*	26.5	0.500	03/02/2020	ND	1.92	95.9	2.00	5.92	
Total Xylenes*	38.9	1.50	03/02/2020	ND	5.62	93.7	6.00	5.93	
Total BTEX	83.5	3.00	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	02/28/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	457	50.0	02/28/2020	ND	213	107	200	3.13	QM-07
DRO >C10-C28*	2210	50.0	02/28/2020	ND	209	105	200	10.4	QM-07
EXT DRO >C28-C36	160	50.0	02/28/2020	ND					
Surrogate: 1-Chlorooctane	121	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	162	% 42.2-15	6						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020

Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 11968 Sample Received By: Tamara Oldaker

Project Location: RURAL EDDY - GRIZZLY ENERGY

Sample ID: V2 @ SURFACE (H000612-03)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	13.6	5.00	02/28/2020	ND	1.88	94.1	2.00	6.03	
Toluene*	134	5.00	02/28/2020	ND	1.90	95.0	2.00	6.11	
Ethylbenzene*	144	5.00	02/28/2020	ND	1.92	95.9	2.00	5.92	
Total Xylenes*	179	15.0	02/28/2020	ND	5.62	93.7	6.00	5.93	
Total BTEX	471	30.0	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	19						
Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/28/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2080	50.0	02/28/2020	ND	213	107	200	3.13	
DRO >C10-C28*	9990	50.0	02/28/2020	ND	209	105	200	10.4	
EXT DRO >C28-C36	1190	50.0	02/28/2020	ND					
Surrogate: 1-Chlorooctane	215	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	362	% 42.2-15	6						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020

Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 11968 Sample Received By: Tamara Oldaker

Project Location: RURAL EDDY - GRIZZLY ENERGY

Sample ID: V2 @ 2' - R (H000612-04)

BTEX 8021B	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.182	0.050	03/02/2020	ND	1.88	94.1	2.00	6.03	
Toluene*	1.63	0.050	03/02/2020	ND	1.90	95.0	2.00	6.11	
Ethylbenzene*	1.98	0.050	03/02/2020	ND	1.92	95.9	2.00	5.92	
Total Xylenes*	2.93	0.150	03/02/2020	ND	5.62	93.7	6.00	5.93	
Total BTEX	6.72	0.300	03/02/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/28/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	49.4	10.0	02/28/2020	ND	213	107	200	3.13	
DRO >C10-C28*	315	10.0	02/28/2020	ND	209	105	200	10.4	
EXT DRO >C28-C36	32.6	10.0	02/28/2020	ND					
Surrogate: 1-Chlorooctane	88.4	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	95.0	% 42.2-15	6						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020

Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 11968 Sample Received By: Tamara Oldaker

Analyzed By: CK

Project Location: RURAL EDDY - GRIZZLY ENERGY

mg/kg

Sample ID: NHB @ SURFACE (H000612-05)

BTEX 8021B

	9/	9	7	7 0.1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.88	94.1	2.00	6.03	
Toluene*	<0.050	0.050	02/28/2020	ND	1.90	95.0	2.00	6.11	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.92	95.9	2.00	5.92	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.62	93.7	6.00	5.93	
Total BTEX	<0.300	0.300	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	02/28/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2020	ND	213	107	200	3.13	
DRO >C10-C28*	<10.0	10.0	02/28/2020	ND	209	105	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	02/28/2020	ND					
Surrogate: 1-Chlorooctane	78.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	77.6	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020

Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 11968 Sample Received By: Tamara Oldaker

Analyzed By: CK

Project Location: RURAL EDDY - GRIZZLY ENERGY

mg/kg

Sample ID: NHB @ 1' (H000612-06)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.93	96.3	2.00	2.88	
Toluene*	<0.050	0.050	02/28/2020	ND	1.96	97.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.95	97.6	2.00	3.24	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.65	94.2	6.00	3.34	
Total BTEX	<0.300	0.300	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	02/28/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2020	ND	213	107	200	3.13	
DRO >C10-C28*	<10.0	10.0	02/28/2020	ND	209	105	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	02/28/2020	ND					
Surrogate: 1-Chlorooctane	88.3	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	87.2	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020 Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: 11968 Tamara Oldaker

Project Location: **RURAL EDDY - GRIZZLY ENERGY**

Sample ID: EH1B @ SURFACE (H000612-07)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.93	96.3	2.00	2.88	
Toluene*	<0.050	0.050	02/28/2020	ND	1.96	97.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.95	97.6	2.00	3.24	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.65	94.2	6.00	3.34	
Total BTEX	<0.300	0.300	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	02/28/2020	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	3.13	
DRO >C10-C28*	354	10.0	02/29/2020	ND	209	105	200	10.4	
EXT DRO >C28-C36	39.9	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	79.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.0	% 42.2-15	6						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020

Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: 11968 Tamara Oldaker

Analyzed By: CK

Project Location: **RURAL EDDY - GRIZZLY ENERGY**

ma/ka

Sample ID: EH1B @ 1' (H000612-08)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.93	96.3	2.00	2.88	
Toluene*	<0.050	0.050	02/28/2020	ND	1.96	97.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.95	97.6	2.00	3.24	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.65	94.2	6.00	3.34	
Total BTEX	<0.300	0.300	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	02/28/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	3.13	
DRO >C10-C28*	794	10.0	02/29/2020	ND	209	105	200	10.4	
EXT DRO >C28-C36	116	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	80.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	116	% 42.2-15	6						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020

Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 11968 Sample Received By: Tamara Oldaker

Analyzed By: CK

Project Location: RURAL EDDY - GRIZZLY ENERGY

Sample ID: EH2B @ SURFACE (H000612-09)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.93	96.3	2.00	2.88	
Toluene*	<0.050	0.050	02/28/2020	ND	1.96	97.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.95	97.6	2.00	3.24	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.65	94.2	6.00	3.34	
Total BTEX	<0.300	0.300	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	02/28/2020	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	3.13	
DRO >C10-C28*	20.4	10.0	02/29/2020	ND	209	105	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	84.9	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	86.5	% 42.2-15	6						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020

Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 11968 Sample Received By: Tamara Oldaker

Analyzed By: CK

Project Location: RURAL EDDY - GRIZZLY ENERGY

mg/kg

Sample ID: EH2B @ 1' (H000612-10)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Andryzo	a by. Cit					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.93	96.3	2.00	2.88	
Toluene*	<0.050	0.050	02/28/2020	ND	1.96	97.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.95	97.6	2.00	3.24	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.65	94.2	6.00	3.34	
Total BTEX	<0.300	<0.300 0.300		ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	02/28/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	3.13	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	209	105	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	86.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.1	% 42.2-15	6						

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Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020

Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 11968 Sample Received By: Tamara Oldaker

Analyzed By: CK

Project Location: RURAL EDDY - GRIZZLY ENERGY

mg/kg

Sample ID: SHB @ SURFACE (H000612-11)

BTEX 8021B

	9,	9	7	7: - 0::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.93	96.3	2.00	2.88	
Toluene*	<0.050	0.050	02/28/2020	ND	1.96	97.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.95	97.6	2.00	3.24	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.65	94.2	6.00	3.34	
Total BTEX	EX <0.300 0.300		02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7680	16.0	02/28/2020	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	3.13	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	209	105	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	87.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.8	% 42.2-15	6						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020

Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: 11968 Tamara Oldaker

Project Location: **RURAL EDDY - GRIZZLY ENERGY**

Sample ID: SHB @ 1' (H000612-12)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.93	96.3	2.00	2.88	
Toluene*	<0.050	0.050	02/28/2020	ND	1.96	97.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.95	97.6	2.00	3.24	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.65	94.2	6.00	3.34	
Total BTEX	<0.300	0.300	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	02/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	3.13	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	209	105	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	83.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.3	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020

Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 11968 Sample Received By: Tamara Oldaker

Analyzed By: CK

Project Location: RURAL EDDY - GRIZZLY ENERGY

mg/kg

Sample ID: WHB @ SURFACE (H000612-13)

BTEX 8021B

	9,	9	7	7: - 0::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.93	96.3	2.00	2.88	
Toluene*	<0.050	0.050	02/28/2020	ND	1.96	97.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.95	97.6	2.00	3.24	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.65	94.2	6.00	3.34	
Total BTEX	<0.300 0.300		02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	02/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	3.13	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	209	105	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	90.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.7	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/26/2020 Sampling Date: 02/25/2020

Reported: 03/02/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 11968 Sample Received By: Tamara Oldaker

Analyzed By: CK

Project Location: RURAL EDDY - GRIZZLY ENERGY

mg/kg

Sample ID: WHB @ 1' (H000612-14)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. Cit					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2020	ND	1.93	96.3	2.00	2.88	
Toluene*	<0.050	0.050	02/28/2020	ND	1.96	97.8	2.00	2.93	
Ethylbenzene*	<0.050	0.050	02/28/2020	ND	1.95	97.6	2.00	3.24	
Total Xylenes*	<0.150	0.150	02/28/2020	ND	5.65	94.2	6.00	3.34	
Total BTEX	<0.300	0.300	02/28/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	02/28/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/29/2020	ND	213	107	200	3.13	
DRO >C10-C28*	<10.0	10.0	02/29/2020	ND	209	105	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	02/29/2020	ND					
Surrogate: 1-Chlorooctane	84.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.4	% 42.2-15	6						

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Celey D. Keene



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

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

Company Name	: Etech Environmenta	& Safety Solution	ns, In	IC.						BI	LL TO					7	ANA	LYSIS	RE	QUES	ST	
Project Manage	r: Joel Lowry							1	P.O. #	t .										T		
Address: P.C). Box 301							(Comp	any:	Vangua	ard/Grizzly	1									
City: Lovingto	on	State: NM	Zip:	: 88	260				Attn:		Carmen		1									
Phone #: (57	5) 396-2378	Fax #: (575) 3	96-14	129					Addre	ss:			1						1			
Project #: 119	68	Project Owner	:	Gri	zzly E	ner	gy		City:				1									
Project Name:	Kersey State Battery								State:		Zip:		1	E	18							
Project Location	: Rural Eddy								Phone		Lip.		Chloride	TPH (8015M)	BTEX (8021B)							
Sampler Name:	Matthew Grieco & Miguel	Ramirez							ax #:				울	8	×							
FOR LAB USE ONLY			Т			MA	TRI)	_	_	ESERV.	SAMPL	ING	۱°	Ē	3							
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME										
1	V1 @ Surf.		G	1		X				X	2/25/20	9:50	Х	Х	Х							
2	V1 @ 3' - R		G	1		X				X	2/25/20	11:10	Х	X	х							
3	V2 @ Surf.		G	1		X				X	2/25/20	10:40	Х	х	х							
4	V2 @ 2' - R		G	1		X	L			X	2/25/20	11:40	Х	х	X							
5	NHb @ Surf.		G	1		X	L	Ш		X	2/25/20	12:10	Х	X	X							
6	NHb @ 1'		G	1		X	Ш			X	2/25/20	12:15	X	Х	Х							
7	EH1b @ Surf.		G	1		X	Ш			X	2/25/20	11:15	X	X	Х	16						
8	EH1b @ 1'		G	1		X		Ш	\perp	X	2/25/20	11:25	X	X	Х							
9	EH2b @ Surf.		G	1		X			-	X	2/25/20	11:20	X	Х	X							
	EH2b @ 1' Damages. Cardinal's liability and client's	earthmise remarks for any ris	G	1	her haned	X	ned or	host she	I be limb	X	2/25/20	11:30	X	X	X							
allyses. All claims: including rvice. In no event shall Ca filiates or successors arisin	those for regligence and any other cause rdinal be liable for incidental or consequent g out of or related to the performance of s	whatsoever shall be deem tal damages, including with services hereunder by Cardi	ed waived out limitati nal, regar	d unles ion, bus rdiess o	s made in siness inte of whether	writing a rruption such d	and re	orived by of use, o	Cardinal or loss of	within 30 day profits incum	ys after completions after some state of the second	n of the applicable bsidiaries,										
Relinquished By Relinquished By	hu	Date: 2-26-20 Time: 850 Date:	1		ed By	wa	re	80	Me	dat	Sel	Phone Re Fax Resul REMARKS	lt:	□ Ye		No No	Add'l I	Phone : Fax #:	#:			
	(Circle One) - Bus - Other:	Time:	#11	13	-	ol Ves	Inta	Yes		CHECK (Initi	als)	Please er	mail re	esults t	to pm@)etec	henv.	com.				

Company

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Company Name:	npany Name: Etech Environmental & Safety Solutions, Inc.									BIL	L TO						ANA	LYSI	SR	QUE	ST			
Project Manager	: Joel Lowry						P	.0.#	:															
Address: P.O	. Box 301						c	omp	any:		Vanguar	d/Grizzly				1								
City: Lovingto	n State: NM	Zip	: 88	260			A	ttn:			Carmen P	itt						1						
Phone #: (575	5) 396-2378 Fax #: (575) 39	96-14	29				A	ddre	ss:								1							
Project #: 119	68 Project Owner		Gr	izzly	Ener	gy	c	ity:						_	=		1			1				
Project Name:	Kersey State Battery						s	tate:			Zip:		9	TPH (8015M)	BTEX (8021B)		1	1						
Project Location	: Rural Eddy						P	hone	#:				Chloride	801	(8)									
Sampler Name:	Matthew Grieco & Miguel Ramirez						F	ax #:					5	Ŧ	EX									
FOR LAB USE ONLY			Г		MA	TRIX		PR	ESE	RV.	SAMPLI	NG	1	=	18							1		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
- 11	SHb @ Surf.	G	1		X				Х		2/25/20	12:25	Х	Х	X									
12	SHb @ 1'	G	1		X				X		2/25/20	12:30	X	Х	X	_	-		1					
13	WHb @ Surf.	G	1		X	1		1	Х		2/25/20	11:45	Х	X	X	-	1			1		_		
14	WHb @ 1'	G	1	Ш	X	1			Х		2/25/20	11:50	X	X	X	-	-	-	+	+	-	-	_	
		1	L		+	-	1	+	H	\blacksquare			⊢	-	-	-	+	+	+	+-	+	+	_	
		1	H	\vdash	+	+		+	4	Н			-		-	+	-	+	+	+	+	+		
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		1	H		1	Ħ	H		t															
PLEASE NOTE: Liability an	Damages. Cardinal's liability and client's exclusive remedy for any cl	aim aris	ing wh	ether bas	sed in co	ntract o	tort, sha	l be limit	led to th	he amo	unt paid by the ci	ent for the	_				_	_	_					
service. In no event shall Ca	g those for negligence and any other cause whatsoever shall be deem indinal be liable for incidental or consequental damages, including with	out limits	ation, b	usiness i	interruption	ors, loss	of use, o	or loss of	profits	incurre	ed by client, its su	bsidiaries,												
Relinquished By	7 Time: 850 .	Re	ecei	ved E	ey: UU	arc	rd	M	da	k	Sur	Phone Re Fax Resu REMARK	lt:	□ Ye	es [No No		Phone Fax #						
	Time: : (Circle One) - Bus - Other: -6.8 c	#1	13		Cool	Inta				ECK (Initi		Please e	mail r	esults	to pn	n@ete	chenv	.com.						



March 26, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: KERSEY STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/23/20 15:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 03/23/2020 Sampling Date: 03/20/2020

Reported: 03/26/2020 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: Cool & Intact

Project Number: 11968 Sample Received By: Kelly Jacobson

Project Location: RURAL EDDY - GRIZZLY ENERGY

Sample ID: V1 @ 3' (H000886-01)

TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2020	ND	211	106	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/24/2020	ND	229	114	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	03/24/2020	ND					
Surrogate: 1-Chlorooctane	84.6 %	6 44.3-14	14						
Surrogate: 1-Chlorooctadecane	91.8 %	6 42.2-15	6						

Sample ID: V1 @ 4' (H000886-02)

TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2020	ND	211	106	200	1.08	
DRO >C10-C28*	<10.0	10.0	03/24/2020	ND	229	114	200	4.48	
EXT DRO >C28-C36	<10.0	10.0	03/24/2020	ND					
Surrogate: 1-Chlorooctane	81.2 %	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	88.0 %	% 42.2-15	6						

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 7/15/2021 8:23:36 AM



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Mule Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 7/15/2021 8:23:36 AM

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 7/15/2021 8:23:36 AM

ompany Name:	(575) 393-2326 FAX Etech Environmental	& Safety Solution	ons,	Inc.							В	L	L TO						ANAL	YSIS	RE	QUE	ST			_
roject Manager								F	2.0.	#:																
ddress: P.O.								0	Com	npar	ny:		Vanguard	/Grizzly												
ity: Lovington		State: NM	Zip:	882	60			1	Attn	:		11	Carmen Pit	t												
		Fax #: (575) 39	6-14	129				1	Add	ress	s:							1								
roject #: 1196		Project Owner:			zzly	Ener	gy	0	City	:							_									
	Kersey State Battery								Stat	e:		Z	ip:		e	5M	21B							- 1		
roject Location								-	Pho	ne f	#:				Chloride	TPH (8015M)	BTEX (8021B)									
	David Robinson							1	Fax	#:					등	Ĭ.	EX									
FOR LAB USE ONLY						MA	TRIX	(1	PRE	SER	4	SAMPLIN	IG		F	E							1		
Lab I.D.	Sample I.I	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	CINEN	DATE	TIME												
10000	V1 @ 3'		G	1		×	(X		3/20/20			X				-		-			_	-
2	V1 @ 4'		G	1)	(Х		3/20/20			X		-	-		-	-	-		_	\vdash
											4	1			-		-	-	-	-	-	-	-	\vdash		+
						1	1				-	+			-	-	-	-	-	-	+	+	-	\vdash	_	+
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			-	1		-	+	-		H	-	+	-		-	+	+	-	+		1	+	1			\vdash
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analyses. All claims includ	and Darmages. Cardinal's liability and clie ding those for negligence and any other of Cardinal be liable for incidental or consec- sing out of or related to the performance.	quental damages, including of services hereunder by	g with	out limit al, rega		usiness of wheth	Inherry	officer	lace of	Sund's	or loss	of pro	ofits incurred by o	fient, its subsid	iaries,	able Y	es [] No	Add'	l Phone	e #:					
Relinquished	to ho	3/23/2 Time: 5/36	"	CCC	vou	٥,,		146	Y					Fax Res	ult:	П	es [No.	Add'	Fax#						
Relinquished E	Ву:	Date:	R	ece	ived	DY:		V																		
		Time:												Please	email	resul	ts to p	m@e	teche	nv.cor	m.					
	y: (Circle One)	.9°c	411	13		Cool	In les f		s				ials)													



Certificate of Analysis Summary 686161

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Kersey State Battery Historical

Project Id: Contact:

11986

PM

Date Received in Lab: Wed 01.27.2021 11:50

Report Date: 01.29.2021 16:43

Project Location: Rural Eddy County, NM Project Manager: Jessica Kramer												
	Lab Id:	686161-0	01	686161-0	02	686161-0	003	686161-0	004	686161-0	005	
Anadonia Danasatad	Field Id:	NW		SW1		E1		E2		WW1		
Analysis Requested	Depth:											
	Matrix:	SOIL		SOIL		SOIL	,	SOIL	,	SOIL		
	Sampled:	01.25.2021	10:00	01.25.2021	09:00	01.25.2021	11:00	01.25.2021	11:00	01.25.2021	11:00	
BTEX by EPA 8021B	Extracted:	01.27.2021	15:00	01.27.2021	15:00	01.27.2021	15:00	01.27.2021	15:00	01.27.2021	15:00	
	Analyzed:	01.27.2021	19:17	01.27.2021	19:38	01.27.2021	19:59	01.27.2021	20:19	01.27.2021	20:40	
	Units/RL:	mg/kg	RL									
Benzene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00201	0.00201	
Toluene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00201	0.00201	
Ethylbenzene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00201	0.00201	
m,p-Xylenes		< 0.00401	0.00401	< 0.00403	0.00403	< 0.00404	0.00404	< 0.00404	0.00404	< 0.00402	0.00402	
o-Xylene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00201	0.00201	
Total Xylenes		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00201	0.00201	
Total BTEX		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00201	0.00201	
Chloride by EPA 300	Extracted:	01.27.2021	15:55	01.27.2021	15:55	01.27.2021	15:55	01.27.2021	15:55	01.27.2021	15:55	
	Analyzed:	01.27.2021	19:21	01.27.2021	19:27	01.27.2021	19:32	01.27.2021	19:37	01.27.2021	19:42	
	Units/RL:	mg/kg	RL									
Chloride		2530	25.0	9110	49.6	5870	49.5	29100	250	2020	25.2	
TPH By SW8015 Mod	Extracted:	01.27.2021	17:00	01.27.2021	17:00	01.27.2021	17:00	01.27.2021	17:00	01.27.2021	17:00	
	Analyzed:	01.28.2021	07:34	01.28.2021	07:54	01.28.2021	08:16	01.28.2021	07:54	01.28.2021	08:16	
	Units/RL:	mg/kg	RL									
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	<49.9	49.9	< 50.0	50.0	< 50.0	50.0	< 50.0	50.0	
Diesel Range Organics (DRO)		< 50.0	50.0	<49.9	49.9	< 50.0	50.0	61.1	50.0	< 50.0	50.0	
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<49.9	49.9	< 50.0	50.0	< 50.0	50.0	< 50.0	50.0	
Total TPH		< 50.0	50.0	<49.9	49.9	< 50.0	50.0	61.1	50.0	< 50.0	50.0	

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Weamer



Analytical Report 686161

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Kersey State Battery Historical 11986 01.29.2021

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



01.29.2021

Project Manager: PM

Etech Environmental & Safety Solution, Inc

P.O. Box 62228 Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): 686161

Kersey State Battery Historical

Project Address: Rural Eddy County, NM

PM:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 686161. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 686161 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Xenco

Environment Testing

Sample Cross Reference 686161

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery Historical

Sample Id	Matrix	Date Collected Sample Depth	Lab Sample Id
NW	S	01.25.2021 10:00	686161-001
SW1	S	01.25.2021 09:00	686161-002
E1	S	01.25.2021 11:00	686161-003
E2	S	01.25.2021 11:00	686161-004
WW1	S	01.25,2021 11:00	686161-005

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Kersey State Battery Historical

 Project ID:
 11986
 Report Date:
 01.29.2021

 Work Order Number(s):
 686161
 Date Received:
 01.27.2021

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3149350 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are:

7720228-1-BSD,686161-004.

Environment Testing

Certificate of Analytical Results 686161

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery Historical

Sample Id: NWMatrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686161-001 Date Collected: 01.25.2021 10:00

Analytical Method: Chloride by EPA 300

Tech: CHE

CHE Analyst:

Seq Number: 3149202

01.27.2021 15:55

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	2530	25.0	mg/kg	01.27.2021 19:21		5	_

Date Prep:

Analytical Method: TPH By SW8015 Mod

DVM Tech:

ARM Analyst: Seq Number: 3149365

Date Prep:

01.27.2021 17:00

% Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.28.2021 07:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.28.2021 07:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.28.2021 07:34	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	01.28.2021 07:34	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	94	%	70-130	01.28.2021 07:34
o-Terphenyl	84-15-1	109	%	70-130	01.28.2021 07:34

Wet Weight



Certificate of Analytical Results 686161

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery Historical

Sample Id: NW Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686161-001 Date Collected: 01.25.2021 10:00

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

540-36-3

Seq Number: 3149158

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	01.27.2021 19:17	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	01.27.2021 19:17	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	01.27.2021 19:17	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	01.27.2021 19:17	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	01.27.2021 19:17	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	01.27.2021 19:17	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	01.27.2021 19:17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	122	%	70-130	01.27.2021 19:17		

109

%

70-130

01.27.2021 19:17



Certificate of Analytical Results 686161

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery Historical

Sample Id: SW1 Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686161-002 Date Collected: 01.25.2021 09:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Seq Number: 3149202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9110	49.6	mg/kg	01.27.2021 19:27		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.27.2021 17:00 % Moisture:

Basis: Wet Weight

Seq Number: 3149365

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	01.28.2021 07:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	01.28.2021 07:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	01.28.2021 07:54	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	01.28.2021 07:54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-130	01.28.2021 07:54		
o-Terphenyl		84-15-1	114	%	70-130	01.28.2021 07:54		

Wet Weight



Certificate of Analytical Results 686161

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery Historical

Sample Id: SW1Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686161-002 Date Collected: 01.25.2021 09:00

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

% Moisture: KTL Analyst: Date Prep: 01.27.2021 15:00 Basis:

Seq Number: 3149158

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	01.27.2021 19:38	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	01.27.2021 19:38	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	01.27.2021 19:38	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	01.27.2021 19:38	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	01.27.2021 19:38	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	01.27.2021 19:38	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	01.27.2021 19:38	U	1
Surrogate	Ca	as Number	% Recovery	Units	Limits	Analysis Date	Flag	



Certificate of Analytical Results 686161

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery Historical

Sample Id: E1

Matrix: Soil

Date Received:01.27.2021 11:50

Lab Sample Id: 686161-003

Date Collected: 01.25.2021 11:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst:

CHE

Date Prep: 01.27.2021 15:55

% Moisture:

Seq Number: 3149202

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5870	49.5	mg/kg	01.27.2021 19:32		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

Analyst: ARM Seq Number: 3149365 Date Prep: 01.27.2021 17:00

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.28.2021 08:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.28.2021 08:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.28.2021 08:16	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	01.28.2021 08:16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	111	%	70-130	01.28.2021 08:16
o-Terphenyl	84-15-1	129	%	70-130	01.28.2021 08:16

Wet Weight

01.27.2021 19:59

70-130



Certificate of Analytical Results 686161

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery Historical

Sample Id: E1 Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686161-003 Date Collected: 01.25.2021 11:00

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

460-00-4

Seq Number: 3149158

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	01.27.2021 19:59	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	01.27.2021 19:59	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	01.27.2021 19:59	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	01.27.2021 19:59	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	01.27.2021 19:59	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	01.27.2021 19:59	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	01.27.2021 19:59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	110	%	70-130	01.27.2021 19:59		

116



Certificate of Analytical Results 686161

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery Historical

Sample Id: **E2** Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686161-004

Date Collected: 01.25.2021 11:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

CHE

Date Prep: 01.27.2021 15:55 % Moisture:

Analyst:

Seq Number: 3149202

Basis: Wet Weight

Prep Method: SW8015P

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29100	250	mg/kg	01.27.2021 19:37		50

Analytical Method: TPH By SW8015 Mod

DVM Tech:

ARM Analyst:

Seq Number: 3149350

Date Prep:

01.27.2021 17:00

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.28.2021 07:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	61.1	50.0		mg/kg	01.28.2021 07:54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.28.2021 07:54	U	1
Total TPH	PHC635	61.1	50.0		mg/kg	01.28.2021 07:54		1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	01.28.2021 07:54	
o-Terphenyl	84-15-1	136	%	70-130	01.28.2021 07:54	**

Wet Weight



Certificate of Analytical Results 686161

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery Historical

Sample Id: E2 Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686161-004 Date Collected: 01.25.2021 11:00

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 01.27.2021 15:00 % Moisture: Basis:

Seq Number: 3149158

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202	mg/kg	01.27.2021 20:19	U	1
Toluene	108-88-3	< 0.00202	0.00202	mg/kg	01.27.2021 20:19	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	mg/kg	01.27.2021 20:19	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404	mg/kg	01.27.2021 20:19	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	mg/kg	01.27.2021 20:19	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202	mg/kg	01.27.2021 20:19	U	1
Total BTEX		< 0.00202	0.00202	mg/kg	01.27.2021 20:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.27.2021 20:19	
1,4-Difluorobenzene	540-36-3	109	%	70-130	01.27.2021 20:19	

Certificate of Analytical Results 686161

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery Historical

Sample Id: WW1 Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686161-005 Date Collected: 01.25.2021 11:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Seq Number: 3149202

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2020	25.2	mg/kg	01.27.2021 19:42		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 01.27.2021 17:00 % Moisture:

Seq Number: 3149350

Bate Piep: 01.27.2021 17.00

Basis: Wet Weight

Cas Number Result RL**Parameter** Units **Analysis Date** Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 50.0 U < 50.0 01.28.2021 08:16 mg/kg Diesel Range Organics (DRO) C10C28DRO 50.0 01.28.2021 08:16 U < 50.0 mg/kg 1 Motor Oil Range Hydrocarbons (MRO) PHCG2835 mg/kg 01.28.2021 08:16 < 50.0 50.0 U 1 Total TPH mg/kg PHC635 < 50.0 50.0 01.28.2021 08:16 U Flag

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	91	%	70-130	01.28.2021 08:16
o-Terphenyl	84-15-1	128	%	70-130	01.28.2021 08:16

Wet Weight



Certificate of Analytical Results 686161

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery Historical

Sample Id: WW1 Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686161-005 Date Collected: 01.25.2021 11:00

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 01.27.2021 15:00 % Moisture: Basis:

Seq Number: 3149158

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201	mg/kg	01.27.2021 20:40	U	1
Toluene	108-88-3	< 0.00201	0.00201	mg/kg	01.27.2021 20:40	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	mg/kg	01.27.2021 20:40	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	mg/kg	01.27.2021 20:40	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	mg/kg	01.27.2021 20:40	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201	mg/kg	01.27.2021 20:40	U	1
Total BTEX		< 0.00201	0.00201	mg/kg	01.27.2021 20:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.27.2021 20:40	
1,4-Difluorobenzene	540-36-3	109	%	70-130	01.27.2021 20:40	



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.

Flag

Flag

B = Spike Added

D = MSD/LCSD % Rec

QC Summary 686161

Etech Environmental & Safety Solution, Inc

Kersey State Battery Historical

Analytical Method:Chloride by EPA 300Prep Method:E300PSeq Number:3149202Matrix:SolidDate Prep:01.27.2021MB Sample Id:7720148-1-BLKLCS Sample Id:7720148-1-BKSLCSD Sample Id:7720148-1-BSD

MB Sample Id: 7720148-1-BLK LCS Sample Id: 7720148-1-BKS LCSD Sample Id: 7720148-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD RPD Units Analysis Flag

Parameter Result Assemble 16: 7720148-1-BSD

Result Amount Result %Rec Result %Rec Limit Date Chloride < 5.00 260 104 258 90-110 20 01.27.2021 18:19 250 103 mg/kg 1

Analytical Method:Chloride by EPA 300Prep Method:E300PSeq Number:3149202Matrix: SoilDate Prep:01.27.2021

Parent Sample Id: 686161-005 MS Sample Id: 686161-005 S MSD Sample Id: 686161-005 SD

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec %Rec Limit Date Result 01.27.2021 19:47 Chloride 2020 1260 3170 91 3150 90 90-110 1 20 mg/kg

Analytical Method:Chloride by EPA 300Prep Method:E300PSeq Number:3149202Matrix: SoilDate Prep:01.27.2021

Parent Sample Id: 686210-001 MS Sample Id: 686210-001 S MSD Sample Id: 686210-001 SD

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limits Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec 20 01.27.2021 18:35 Chloride 1.04 252 277 110 249 98 90-110 11 mg/kg

Analytical Method:TPH By SW8015 ModPrep Method:SW8015PSeq Number:3149350Matrix:SolidDate Prep:01.27.2021

MB Sample Id: 7720228-1-BLK LCS Sample Id: 7720228-1-BKS LCSD Sample Id: 7720228-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis **Parameter** Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 01.27.2021 22:57 947 95 70-130 20 < 50.0 1000 955 96 mg/kg 01.27.2021 22:57 Diesel Range Organics (DRO) 942 94 955 70-130 20 < 50.0 1000 96 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Date Flag %Rec Flag 01.27.2021 22:57 1-Chlorooctane 85 99 99 70-130 % 01.27.2021 22:57 ** o-Terphenyl 122 129 131 70-130 %

Analytical Method:TPH By SW8015 ModPrep Method:SW8015PSeq Number:3149365Matrix:SolidDate Prep:01.27.2021

MB Sample Id: 7720231-1-BLK LCS Sample Id: 7720231-1-BSD

MB Spike LCS LCS %RPD RPD Units LCSD LCSD Limits Analysis **Parameter** Result Amount Result %Rec Limit Date Result %Rec Gasoline Range Hydrocarbons (GRO) 01.27.2021 22:57 92 1000 962 96 923 20 < 50.0 70-130 4 mg/kg 01.27.2021 22:57 Diesel Range Organics (DRO) 1010 101 70-130 < 50.0 1000 985 99 3 20 mg/kg

MB MB LCS LCS LCSD Units Analysis Limits LCSD **Surrogate** Flag Date %Rec Flag %Rec %Rec Flag 01.27.2021 22:57 1-Chlorooctane 95 98 102 70-130 % 01.27.2021 22:57 o-Terphenyl 119 102 100 70-130 %

 $RPD = 200* \mid (C-E) \mid (C+E) \mid$

Page 17 of 21 Final 1.000

= Parent Result

Relative Percent Difference



QC Summary 686161

Etech Environmental & Safety Solution, Inc

Kersey State Battery Historical

Analytical Method: TPH By SW8015 Mod

Seq Number: 3149350

Matrix: Solid

SW8015P Prep Method:

01.27.2021 Date Prep:

MB Sample Id: 7720228-1-BLK

MB

Result

MB **Parameter** Result

Units

Analysis Flag Date

Motor Oil Range Hydrocarbons (MRO) < 50.0

01.27.2021 22:36 mg/kg

Analytical Method: TPH By SW8015 Mod

Seq Number: 3149365 Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.27.2021

MB Sample Id: 7720231-1-BLK

Parameter

Units

Analysis Flag Date

Flag

Flag

Motor Oil Range Hydrocarbons (MRO) < 50.0

01.27.2021 22:36 mg/kg

Analytical Method: TPH By SW8015 Mod

3149350 Seq Number:

Parent Sample Id:

Matrix: Soil

SW8015P Prep Method:

Date Prep: 01.27.2021

MS Sample Id: 685876-001 S 685876-001

MSD Sample Id: 685876-001 SD

Spike **RPD** MS MS %RPD Units Parent MSD **MSD** Limits Analysis **Parameter** Result Result Limit Date Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) <49.9 997 97 918 5 20 01.28.2021 00:01 966 92 70-130 mg/kg Diesel Range Organics (DRO) <49.9 997 968 97 913 92 70-130 6 20 01.28.2021 00:01 mg/kg

MS MS **MSD** Limits Units Analysis MSD **Surrogate** Flag Flag %Rec %Rec Date 01.28.2021 00:01 1-Chlorooctane 99 84 70-130 % o-Terphenyl 107 104 70-130 % 01.28.2021 00:01

Analytical Method: TPH By SW8015 Mod

3149365

Matrix: Soil

Prep Method:

SW8015P

Seq Number:

Date Prep:

01.27.2021

Parent Sample Id: 685933-001

685933-001 S MS Sample Id:

MSD Sample Id: 685933-001 SD

%RPD RPD **Parent** Spike MS MS **MSD MSD** Limits Units Analysis **Parameter** Result Result %Rec Limit Date Amount Result %Rec Gasoline Range Hydrocarbons (GRO) 20 01.28.2021 00:01 103 997 968 87 945 85 70-130 2 mg/kg 70-130 01.28.2021 00:01 1100 3 Diesel Range Organics (DRO) 374 997 1130 76 73 20 mg/kg

MS MS **MSD** Limits Units Analysis MSD **Surrogate** %Rec Flag %Rec Flag Date 01.28.2021 00:01 100 102 1-Chlorooctane 70-130 % 01.28.2021 00:01 o-Terphenyl 97 95 70-130 %

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

01.27.2021 16:14

Flag

4-Bromofluorobenzene

119

QC Summary 686161

Etech Environmental & Safety Solution, Inc

Kersey State Battery Historical

104

70-130

%

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3149158Matrix:SolidDate Prep:01.27.2021MB Sample Id:7720185-1-BLKLCS Sample Id:7720185-1-BKSLCSD Sample Id:7720185-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0804	80	0.0787	79	70-130	2	35	mg/kg	01.27.2021 16:14	
Toluene	< 0.00200	0.100	0.0868	87	0.0794	79	70-130	9	35	mg/kg	01.27.2021 16:14	
Ethylbenzene	< 0.00200	0.100	0.0863	86	0.0833	83	70-130	4	35	mg/kg	01.27.2021 16:14	
m,p-Xylenes	< 0.00400	0.200	0.160	80	0.154	77	70-130	4	35	mg/kg	01.27.2021 16:14	
o-Xylene	< 0.00200	0.100	0.0904	90	0.0836	84	70-130	8	35	mg/kg	01.27.2021 16:14	
Surrogate	MB %Rec	MB Flag	Lo %I		LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	99		10)7		107		70	-130	%	01.27.2021 16:14	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

103

 Seq Number:
 3149158
 Matrix:
 Soil
 Date Prep:
 01.27.2021

 Parent Sample Id:
 685949-002
 MS Sample Id:
 685949-002 S
 MSD Sample Id:
 685949-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	I
Benzene	< 0.00199	0.0996	0.0839	84	0.105	106	70-130	22	35	mg/kg	01.27.2021 16:55	
Toluene	0.00250	0.0996	0.0930	91	0.0991	98	70-130	6	35	mg/kg	01.27.2021 16:55	
Ethylbenzene	< 0.00199	0.0996	0.0876	88	0.0928	94	70-130	6	35	mg/kg	01.27.2021 16:55	
m,p-Xylenes	< 0.00398	0.199	0.178	89	0.178	90	70-130	0	35	mg/kg	01.27.2021 16:55	
o-Xylene	< 0.00199	0.0996	0.0991	99	0.106	107	70-130	7	35	mg/kg	01.27.2021 16:55	

Surrogate	%Rec	Flag	MSD %Rec	Flag	Limits	Units	Date Date
1,4-Difluorobenzene	103		108		70-130	%	01.27.2021 16:55
4-Bromofluorobenzene	118		119		70-130	%	01.27.2021 16:55

Received by OCD: 4/7/2021 2:37:24 PM



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334

Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900

Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701

Atlanta, GA (770) 449-8800

	Work Order	No: (1841	6/
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							A	tlanta, (3A (770	0) 449-8	800			. ,							
Project Manager:	Joel Lowry				Bill to: (if differ	ont)								_				www.x			
Company Name:	Etech Environr	nental a	nd Safety		Company Na									_							Comments
Address:	3100 Plains Hy				Address:	iiiic.					******			_		am: US ate of F			सम्⊥ा	Brown	nfield☐ RR(☐ Superfund☐
City, State ZIP:	Lovington, NM,				City, State Zi	ID:					************			_			•		л —	DOT	7U\$TRF Level∏/
Phone:	575-396-2378			Email:	Email Resu		PM@	etech	env.c	om + (Client					rables:				PS I. ADaP1	
Project Name:	Kersey St	ate Batte	ery Historica		rn Around								SIS RE	OHE	ST						Preservative Codes
Project Number:		11986)	Routi	ne: 🔲							-0.00 mm (0.000)	Ī	- -	<u> </u>			I			HNO3: HN
Project Location	Rural	Eddy Co	unty, NM	Rush		9	***************************************														
Sampler's Name:	8	ncer Blad		Due [Date: ASAP	vatir												1			H2S04: H2 HCL: HL
PO#:] set														1	None: NO
SAMPLE RECE	EIPT Ter	np Blank:	Yes No	Wet Ice:	(es No	s/Pro												1			NaOH: Na
Temperature (°C):	كار ا)	1	hermometer	ID] New															MeOH: Me
Received Intact:	Kes	No		9	8	ntai		Ę.													Zn Acetate+ NaOH: Zn
Cooler Custody Seal Sample Custody Sea	Marie Control Control		Correction F	OVER THE RESERVE OF THE PARTY O	٠, ٢	of Conf	(8021)	diffied E													TAT starts the day recevied by the lab, if received by 4:30pm
Sample Ider	ntification	Matrix	Date Sampled	Time Sampled	Depth	Number Code	втех (80	TPH (Modified Ext.)	CI- (E300)												Sample Comments
NV	٧	Soil	1/25/2021	10:00		1/NO	Х	Х	Х												
sw	/1	Soil	1/25/2021	9:00		1/NO	Х	Х	Х												
E1		Soil	1/25/2021	11:00		1/NO		Х	Х												
E2	2	Soil	1/25/2021	11:00		1/NO	Х	Х	Х												
WW	/1	Soil	1/25/2021	11:00		1/NO	Х	х	х												
****																		$\neg \uparrow$			
		<u> </u>																T			
	(s) and Metal(s)	to be an	alyzed	ICLP / SPL	_P 6010: 8F	CRA	Sb /	As Ba	в Ве	Cd C	r Co	Cu F	Pb Mr	Mo	Ni S	e Ag	TI U				Na Sr TI Sn U V Zn 31 / 245.1 / 7470 / 7471 : Hg
Notice: Signature of this	document and reling	uishment o																	itions		

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$76.00 will be applied to each project and a charge of \$5 for each sample submitted to 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
Mina	eg allo	1-2621 3:10	2 Egy Caillo	1/1/2	127/21/1)
			6		

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 01.27.2021 11.50.00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Date: 01.27.2021

Work Order #: 686161

Temperature Measuring device used: IR8

WOIR Older #. 000101	·	_
	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		.2
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping cor	tainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	s?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinqu	iished/ received?	Yes
#10 Chain of Custody agrees with sampl	e labels/matrix?	Yes
#11 Container label(s) legible and intact?		Yes
#12 Samples in proper container/ bottle?		Yes
#13 Samples properly preserved?		Yes
#14 Sample container(s) intact?		Yes
#15 Sufficient sample amount for indicate	ed test(s)?	Yes
#16 All samples received within hold time	?	Yes
#17 Subcontract of sample(s)?		N/A
#18 Water VOC samples have zero head	Ispace?	N/A
* Must be completed for after-hours de Analyst:	livery of samples prior to placing in	n the refrigerator
Checklist completed by:	Bawa Tay Brianna Teel	Date: 01.27.2021
Checklist reviewed by:	Jessica Vramer	Data 04 07 0004



Certificate of Analysis Summary 686159

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Kersey State Battery

Project Id:

Contact:

12653

Date Received in Lab: Wed 01.27.2021 11:50

PM

Report Date: 02.02.2021 09:28

Project Location:

Rural Eddy County

Project Manager: Jessica Kramer

	Lab Id:	686159-0	001	686159-002		686159-0	003	686159-0	004	686159-0	005	686159-0	006
Analysis Requested	Field Id:	FL 1 @	8"	FL 2 @	8"	FL 3 @	8	FL 4 @ 2	2'	SP1-D		SP2-D	
Analysis Requesieu	Depth:	8- In		8- In	8- In		8- In		2- ft				
	Matrix:	SOIL	.	SOIL	SOIL		SOIL		SOIL		,	SOIL	
	Sampled:	01.26.2021	01.26.2021 09:00		09:30	01.26.2021	10:00	01.26.2021	10:45	01.26.2021 12:00		01.26.2021	12:30
BTEX by EPA 8021B	Extracted:	01.29.2021	17:15	01.29.2021	17:15	01.29.2021	17:15	01.31.2021	10:00	01.31.2021	10:00	01.31.2021	10:00
	Analyzed:	01.31.2021	01.31.2021 00:59		01:19	01.31.2021	01:40	01.31.2021	16:10	01.31.2021	16:36	01.31.2021	17:02
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene	·	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	0.00828	0.00201
Toluene		< 0.00200	0.00200	< 0.00201	0.00201	0.0185	0.00200	< 0.00200	0.00200	0.00212	0.00202	0.00640	0.00201
Ethylbenzene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	0.00207	0.00202	0.00444	0.00201
m,p-Xylenes		< 0.00399	0.00399	0.0926	0.00402	0.0516	0.00399	< 0.00399	0.00399	0.0134	0.00403	0.0203	0.00402
o-Xylene		< 0.00200	0.00200	0.161	0.00201	0.210	0.00200	0.0514 XF	0.00200	0.0622	0.00202	0.00860	0.00201
Total Xylenes		< 0.00200	0.00200	0.254	0.00201	0.262	0.00200	0.0514	0.00200	0.0756	0.00202	0.0289	0.00201
Total BTEX		< 0.00200	0.00200	0.254	0.00201	0.280	0.00200	0.0514	0.00200	0.0798	0.00202	0.0480	0.00201
Chloride by EPA 300	Extracted:	01.28.2021	16:45	01.28.2021 16:45		01.28.2021	16:45	01.28.2021	16:45	01.28.2021	16:45	01.28.2021 16:45	
	Analyzed:	01.29.2021	05:38	01.29.2021	05:44	01.29.2021 05:49		01.29.2021 05:54		01.29.2021	05:59	01.29.2021	06:05
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		4790	50.0	7590	50.4	16000	249	2530	24.8	7940	49.7	7680	100
TPH By SW8015 Mod	Extracted:	01.29.2021	17:00	01.29.2021	17:00	01.29.2021	17:00	01.29.2021	17:00	01.29.2021	17:00	01.29.2021	17:00
	Analyzed:	01.30.2021	01.30.2021 09:11		06:30	01.30.2021	06:52	01.30.2021	05:27	01.30.2021	07:14	01.30.2021	07:35
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		52.3	50.0	251	249	<250	250	< 50.0	50.0	<249	249	<250	250
Diesel Range Organics (DRO)		5540	50.0	20900	249	12000	250	114	50.0	19900	249	22900	250
Motor Oil Range Hydrocarbons (MRO)		900	50.0	2860	249	1800	250	< 50.0	50.0	3600	249	3460	250
Total TPH		11800	50.0	24000	249	13800	250	114	50.0	23500	249	26400	250

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Vramer

eurofins Environment Testing

Page 76 of 115

Certificate of Analysis Summary 686159

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Kersey State Battery

Project Id:

Contact:

12653

PM

Date Received in Lab: Wed 01.27.2021 11:50

Report Date: 02.02.2021 09:28

Project Location:

Rural Eddy County

Project Manager: Jessica Kramer

	Lab Id:	686159-007			
	Field Id:	WH-D			
Analysis Requested	Depth:				
	Matrix:	SOIL			
	Sampled:	01.26.2021 13:00			
BTEX by EPA 8021B	Extracted:	01.31.2021 10:00			
	Analyzed:	01.31.2021 17:28			
	Units/RL:	mg/kg RL			
Benzene		<0.00200 0.00200			
Toluene		0.00562 0.00200			
Ethylbenzene		< 0.00200 0.00200			
m,p-Xylenes		0.0444 0.00401			
o-Xylene		0.117 0.00200			
Total Xylenes		0.161 0.00200			
Total BTEX		0.167 0.00200			
Chloride by EPA 300	Extracted:	01.28.2021 16:45			
	Analyzed:	01.29.2021 06:21			
	Units/RL:	mg/kg RL			
Chloride		4310 50.3			
TPH By SW8015 Mod	Extracted:	01.29.2021 17:00			
	Analyzed:	01.30.2021 05:48			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9			
Diesel Range Organics (DRO)		<49.9 49.9			
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9			
Total TPH		<49.9 49.9			

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Weamer



Analytical Report 686159

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Kersey State Battery 12653 02.02.2021

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



02.02.2021

Project Manager: PM

Etech Environmental & Safety Solution, Inc

P.O. Box 62228 Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): 686159

Kersey State Battery

Project Address: Rural Eddy County

PM:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 686159. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 686159 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Xenco

Sample Cross Reference 686159

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL 1 @ 8"	S	01.26.2021 09:00	8 In	686159-001
FL 2 @ 8"	S	01.26.2021 09:30	8 In	686159-002
FL 3 @ 8	S	01.26.2021 10:00	8 In	686159-003
FL 4 @ 2'	S	01.26.2021 10:45	2 ft	686159-004
SP1-D	S	01.26.2021 12:00		686159-005
SP2-D	S	01.26.2021 12:30		686159-006
WH-D	S	01.26.2021 13:00		686159-007

Environment Testing

CASE NARRATIVE

Page 80 of 115

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Kersey State Battery

 Project ID:
 12653
 Report Date:
 02.02.2021

 Work Order Number(s):
 686159
 Date Received:
 01.27.2021

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3149479 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7720417-1-

BLK,686159-002.

Batch: LBA-3149530 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is suspected;

Samples affected are: 686159-004 S,686159-004 SD.

Lab Sample ID 686159-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 686159-004, -005, -006, -007.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Benzene, Ethylbenzene, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 686159-004, -005, -006, -007

Batch: LBA-3149602 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 686159-003,686159-001,686159-006,686159-005.



Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: **FL 1 @ 8"**

Matrix: Soil

Date Received:01.27.2021 11:50

Lab Sample Id: 686159-001

Date Collected: 01.26.2021 09:00

Sample Depth: 8 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst:

CHE

Date Prep:

01.28.2021 16:45

% Moisture:

Basis:

Wet Weight

Seq Number: 3149321

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4790	50.0	mg/kg	01.29.2021 05:38		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

01.30.2021 09:11

Tech:

DVM

Analyst: ARM Seq Number: 3149602

o-Terphenyl

Date Prep: 01.29.2021 17:00

% Moisture:

Basis:

70-130

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	52.3	50.0		mg/kg	01.30.2021 09:11		1
Diesel Range Organics (DRO)	C10C28DRO	5540	50.0		mg/kg	01.30.2021 09:11		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	900	50.0		mg/kg	01.30.2021 09:11		1
Total TPH	PHC635	11800	50.0		mg/kg	01.30.2021 09:11		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	112	%	70-130	01.30.2021 09:11		

198

84-15-1



Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: **FL 1 @ 8"** Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686159-001 Date Collected: 01.26.2021 09:00 Sample Depth: 8 In

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 01.29.2021 17:15 % Moisture:

Seq Number: 3149479

70 Moisture.	
Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	01.31.2021 00:59	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	01.31.2021 00:59	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	01.31.2021 00:59	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	01.31.2021 00:59	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	01.31.2021 00:59	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	01.31.2021 00:59	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	01.31.2021 00:59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	130	%	70-130	01.31.2021 00:59		
1,4-Difluorobenzene		540-36-3	95	%	70-130	01.31.2021 00:59		



Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: **FL 2 @ 8''**

Matrix: Soil

Date Received:01.27.2021 11:50

Lab Sample Id: 686159-002

Date Collected: 01.26.2021 09:30

Sample Depth: 8 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:
Analyst:

CHE

CHE

Date Prep: 01.28.2021 16:45

% Moisture:

Seq Number: 3149321

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7590	50.4	mg/kg	01.29.2021 05:44		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

01.30.2021 06:30

Tech:

DVM

Analyst: ARM Seq Number: 3149602

o-Terphenyl

Date Prep: 01.29.2021 17:00

% Moisture:

Basis:

70-130

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	251	249		mg/kg	01.30.2021 06:30		5
Diesel Range Organics (DRO)	C10C28DRO	20900	249		mg/kg	01.30.2021 06:30		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	2860	249		mg/kg	01.30.2021 06:30		5
Total TPH	PHC635	24000	249		mg/kg	01.30.2021 06:30		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	115	%	70-130	01.30.2021 06:30		

84-15-1

Wet Weight



Certificate of Analytical Results 686159

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: FL 2 @ 8" Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686159-002 Date Collected: 01.26.2021 09:30 Sample Depth: 8 In

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 01.29.2021 17:15 % Moisture: Basis:

540-36-3

Seq Number: 3149479

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	01.31.2021 01:19	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	01.31.2021 01:19	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	01.31.2021 01:19	U	1
m,p-Xylenes	179601-23-1	0.0926	0.00402		mg/kg	01.31.2021 01:19		1
o-Xylene	95-47-6	0.161	0.00201		mg/kg	01.31.2021 01:19		1
Total Xylenes	1330-20-7	0.254	0.00201		mg/kg	01.31.2021 01:19		1
Total BTEX		0.254	0.00201		mg/kg	01.31.2021 01:19		1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	60-00-4	181	%	70-130	01.31.2021 01:19	**	

86

70-130

01.31.2021 01:19



Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: FL 3 @ 8

Matrix: Soil

Date Received:01.27.2021 11:50

Lab Sample Id: 686159-003

Date Collected: 01.26.2021 10:00

Sample Depth: 8 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

Analyst:

CHE

Date Prep: 01.28.2021 16:45

% Moisture:

Seq Number: 3149321

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16000	249	mg/kg	01.29.2021 05:49		50

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

01.30.2021 06:52

Tech:

DVM

Analyst: ARM Seq Number: 3149602

o-Terphenyl

Date Prep: 01.29.2021 17:00

% Moisture:

Basis:

70-130

Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250		mg/kg	01.30.2021 06:52	U	5
Diesel Range Organics (DRO)	C10C28DRO	12000	250		mg/kg	01.30.2021 06:52		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1800	250		mg/kg	01.30.2021 06:52		5
Total TPH	PHC635	13800	250		mg/kg	01.30.2021 06:52		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-130	01.30.2021 06:52		

234

84-15-1



Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: FL 3 @ 8 Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686159-003 Date Collected: 01.26.2021 10:00 Sample Depth: 8 In

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: KTL

Analyst: KTL Date Prep: 01.29.2021 17:15 % Moisture:

Seq Number: 3149479

Bate Prep: 01.29.2021 17:13

Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	01.31.2021 01:40	U	1
Toluene	108-88-3	0.0185	0.00200		mg/kg	01.31.2021 01:40		1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	01.31.2021 01:40	U	1
m,p-Xylenes	179601-23-1	0.0516	0.00399		mg/kg	01.31.2021 01:40		1
o-Xylene	95-47-6	0.210	0.00200		mg/kg	01.31.2021 01:40		1
Total Xylenes	1330-20-7	0.262	0.00200		mg/kg	01.31.2021 01:40		1
Total BTEX		0.280	0.00200		mg/kg	01.31.2021 01:40		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	91	%	70-130	01.31.2021 01:40		
4-Bromofluorobenzene		460-00-4	128	%	70-130	01.31.2021 01:40		

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: FL 4 @ 2' Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686159-004

Date Collected: 01.26.2021 10:45

Sample Depth: 2 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

CHE

CHE

Date Prep:

01.28.2021 16:45

% Moisture:

Basis:

Wet Weight

Prep Method: SW8015P

Seq Number: 3149321

Tech:

Analyst:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2530	24.8	mg/kg	01.29.2021 05:54		5

Analytical Method: TPH By SW8015 Mod

Tech:

DVM

Analyst: Seq Number: 3149602

ARM

Date Prep:

01.29.2021 17:00

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.30.2021 05:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	114	50.0		mg/kg	01.30.2021 05:27		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.30.2021 05:27	U	1
Total TPH	PHC635	114	50.0		mg/kg	01.30.2021 05:27		1
Surrogate	C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	117	%	70-130	01.30.2021 05:27
o-Terphenyl	84-15-1	109	%	70-130	01.30.2021 05:27

Wet Weight



Certificate of Analytical Results 686159

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: FL 4 @ 2' Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686159-004 Date Collected: 01.26.2021 10:45 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MNR

Analyst: MNR Date Prep: 01.31.2021 10:00 % Moisture: Basis:

Seq Number: 3149530

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	01.31.2021 16:10	UXF	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	01.31.2021 16:10	UX	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	01.31.2021 16:10	UXF	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	01.31.2021 16:10	UX	1
o-Xylene	95-47-6	0.0514	0.00200		mg/kg	01.31.2021 16:10	XF	1
Total Xylenes	1330-20-7	0.0514	0.00200		mg/kg	01.31.2021 16:10		1
Total BTEX		0.0514	0.00200		mg/kg	01.31.2021 16:10		1
Surrogata	Co	s Number	0/2 Docovory	Unite	Limite	Analysis Data	Flog	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	71	%	70-130	01.31.2021 16:10	
4-Bromofluorobenzene	460-00-4	119	%	70-130	01.31.2021 16:10	

Xenco

Certificate of Analytical Results 686159

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: SP1-D Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686159-005

Date Collected: 01.26.2021 12:00

Analytical Method: Chloride by EPA 300 Tech:

Seq Number: 3149321

Analyst:

CHE

CHE

Date Prep:

Date Prep:

01.28.2021 16:45

01.29.2021 17:00

% Moisture:

Prep Method: E300P

Basis:

Wet Weight

Analysis Date Parameter Cas Number Result RL Units Flag Dil Chloride 16887-00-6 7940 49.7 01.29.2021 05:59 mg/kg 10

Analytical Method: TPH By SW8015 Mod

Tech:

DVM

ARM Analyst: Seq Number: 3149602

o-Terphenyl

Prep Method: SW8015P

70-130

% Moisture:

01.30.2021 07:14

Basis:

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<249	249		mg/kg	01.30.2021 07:14	U	5
Diesel Range Organics (DRO)	C10C28DRO	19900	249		mg/kg	01.30.2021 07:14		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	3600	249		mg/kg	01.30.2021 07:14		5
Total TPH	PHC635	23500	249		mg/kg	01.30.2021 07:14		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-130	01.30.2021 07:14		

206

84-15-1



Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: SP1-D Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686159-005 Date Collected: 01.26.2021 12:00

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MNR

Analyst: MNR Date Prep: 01.31.2021 10:00 % Moisture:

Seq Number: 3149530

Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	01.31.2021 16:36	U	1
Toluene	108-88-3	0.00212	0.00202		mg/kg	01.31.2021 16:36		1
Ethylbenzene	100-41-4	0.00207	0.00202		mg/kg	01.31.2021 16:36		1
m,p-Xylenes	179601-23-1	0.0134	0.00403		mg/kg	01.31.2021 16:36		1
o-Xylene	95-47-6	0.0622	0.00202		mg/kg	01.31.2021 16:36		1
Total Xylenes	1330-20-7	0.0756	0.00202		mg/kg	01.31.2021 16:36		1
Total BTEX		0.0798	0.00202		mg/kg	01.31.2021 16:36		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	91	%	70-130	01.31.2021 16:36		
1.4 Difluorobanzana		540 36 3	71	0/2	70.130	01 31 2021 16:36		

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: SP2-D Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686159-006

Date Collected: 01.26.2021 12:30

Analytical Method: Chloride by EPA 300 Tech:

CHE

CHE Analyst:

Date Prep:

01.28.2021 16:45

% Moisture:

Basis:

Prep Method: E300P

Wet Weight

Seq Number: 3149321 **Parameter**

Chloride

16887-00-6

Cas Number

Result 7680

RL 100

Units mg/kg

Analysis Date 01.29.2021 06:05

Prep Method: SW8015P

Flag Dil 20

Analytical Method: TPH By SW8015 Mod

Tech:

DVM

Analyst: ARM Seq Number: 3149602

Date Prep: 01.29.2021 17:00 % Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250		mg/kg	01.30.2021 07:35	U	5
Diesel Range Organics (DRO)	C10C28DRO	22900	250		mg/kg	01.30.2021 07:35		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	3460	250		mg/kg	01.30.2021 07:35		5
Total TPH	PHC635	26400	250		mg/kg	01.30.2021 07:35		5
Surrogate	C	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

01.30.2021 07:35 1-Chlorooctane 111-85-3 109 70-130 o-Terphenyl 84-15-1 356 70-130 01.30.2021 07:35

Wet Weight

Certificate of Analytical Results 686159

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: SP2-D Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686159-006 Date Collected: 01.26.2021 12:30

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MNR

Analyst: MNR Date Prep: 01.31.2021 10:00 % Moisture: Basis:

Seq Number: 3149530

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00828	0.00201	mg/kg	01.31.2021 17:02		1
Toluene	108-88-3	0.00640	0.00201	mg/kg	01.31.2021 17:02		1
Ethylbenzene	100-41-4	0.00444	0.00201	mg/kg	01.31.2021 17:02		1
m,p-Xylenes	179601-23-1	0.0203	0.00402	mg/kg	01.31.2021 17:02		1
o-Xylene	95-47-6	0.00860	0.00201	mg/kg	01.31.2021 17:02		1
Total Xylenes	1330-20-7	0.0289	0.00201	mg/kg	01.31.2021 17:02		1
Total BTEX		0.0480	0.00201	mg/kg	01.31.2021 17:02		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	81	%	70-130	01.31.2021 17:02	
4-Bromofluorobenzene	460-00-4	112	%	70-130	01.31.2021 17:02	



Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: WH-D

Soil

Date Received:01.27.2021 11:50

Lab Sample Id: 686159-007

Date Collected: 01.26.2021 13:00

Analytical Method: Chloride by EPA 300 Tech:

CHE

CHE Analyst:

Date Prep:

01.28.2021 16:45

% Moisture:

Basis: Wet Weight

Prep Method: E300P

Seq Number: 3149321

Analysis Date Parameter Cas Number Result RL Units Flag Dil Chloride 16887-00-6 4310 50.3 01.29.2021 06:21 10 mg/kg

Analytical Method: TPH By SW8015 Mod

DVM Tech:

ARM Analyst: Seq Number: 3149602

Date Prep:

Matrix:

01.29.2021 17:00

% Moisture:

Prep Method: SW8015P

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	01.30.2021 05:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	01.30.2021 05:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	01.30.2021 05:48	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	01.30.2021 05:48	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	108	%	70-130	01.30.2021 05:48
o-Terphenyl	84-15-1	104	%	70-130	01.30.2021 05:48

Etech Environmental & Safety Solution, Inc, Midland, TX

Kersey State Battery

Sample Id: WH-D Matrix: Soil Date Received:01.27.2021 11:50

Lab Sample Id: 686159-007 Date Collected: 01.26.2021 13:00

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MNR

% Moisture: MNR Analyst: Date Prep: 01.31.2021 10:00

Seq Number: 3149530

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	01.31.2021 17:28	U	1
Toluene	108-88-3	0.00562	0.00200		mg/kg	01.31.2021 17:28		1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	01.31.2021 17:28	U	1
m,p-Xylenes	179601-23-1	0.0444	0.00401		mg/kg	01.31.2021 17:28		1
o-Xylene	95-47-6	0.117	0.00200		mg/kg	01.31.2021 17:28		1
Total Xylenes	1330-20-7	0.161	0.00200		mg/kg	01.31.2021 17:28		1
Total BTEX		0.167	0.00200		mg/kg	01.31.2021 17:28		1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	60-00-4	125	%	70-130	01.31.2021 17:28		



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.

QC Summary 686159

Etech Environmental & Safety Solution, Inc

Kersey State Battery

Analytical Method:Chloride by EPA 300Prep Method:E300PSeq Number:3149321Matrix: SolidDate Prep:01.28.2021

MB Sample Id: 7720253-1-BLK LCS Sample Id: 7720253-1-BKS LCSD Sample Id: 7720253-1-BSD

LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride < 5.00 269 108 258 90-110 20 01.29.2021 04:40 250 103 4 mg/kg

Analytical Method: Chloride by EPA 300 Prep Method: E300P

 Seq Number:
 3149321
 Matrix:
 Soil
 Date Prep:
 01.28.2021

 Parent Sample Id:
 686158-004
 MS Sample Id:
 686158-004 S
 MSD Sample Id:
 686158-004 SD

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec %Rec Limit Date Result 01.29.2021 04:55 Chloride 27.2 249 290 106 294 107 90-110 20 mg/kg

Analytical Method: Chloride by EPA 300 Prep Method: E300P

13000

 Seq Number:
 3149321
 Matrix:
 Soil
 Date Prep:
 01.28.2021

 Parent Sample Id:
 686159-006
 MS Sample Id:
 686159-006 S
 MSD Sample Id:
 686159-006 SD

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limite Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec

13200

110

90-110

106

Analytical Method:TPH By SW8015 ModPrep Method:SW8015PSeq Number:3149602Matrix:SolidDate Prep:01.29.2021

MB Sample Id: 7720491-1-BLK LCS Sample Id: 7720491-1-BKS LCSD Sample Id: 7720491-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 01.29.2021 22:58 940 94 20 < 50.0 1000 1000 100 70-130 6 mg/kg 01.29.2021 22:58 Diesel Range Organics (DRO) 972 97 70-130 20 < 50.0 1000 975 98 0 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Date Flag %Rec Flag 01.29.2021 22:58 1-Chlorooctane 109 119 119 70-130 % 01.29.2021 22:58 o-Terphenyl 104 105 106 70-130 %

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Seq Number: 3149602 Matrix: Solid Date Prep: 01.29.2021

MB Sample Id: 7720491-1-BLK

7680

5000

 Parameter
 MB Result
 Units Date
 Analysis Date
 Flag

 Motor Oil Range Hydrocarbons (MRO)
 <50.0</td>
 mg/kg
 01.29.2021 22:37
 01.29.2021 22:37

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

Chloride

[D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100*(C) / [B] Log Diff - Log(Sample Duplicate) - Log(Original S

 $Log\ Diff. = Log(Sample\ Duplicate) - Log(Original\ Sample)$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

2

20

mg/kg

01.29.2021 06:10

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Flag

Flag

Flag

QC Summary 686159

Etech Environmental & Safety Solution, Inc

Kersey State Battery

 Analytical Method:
 TPH By SW8015 Mod
 Prep Method:
 SW8015P

 Seq Number:
 3149602
 Matrix:
 Soil
 Date Prep:
 01.29.2021

 Parent Sample Id:
 686479-002
 MS Sample Id:
 686479-002 S
 MSD Sample Id:
 686479-002 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) <49.9 997 1070 107 989 8 20 01.30.2021 00:03 99 70-130 mg/kg 01.30.2021 00:03 Diesel Range Organics (DRO) <49.9 997 1090 109 961 70-130 13 20 mg/kg 96

MS MS MSD MSD Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 01.30.2021 00:03 1-Chlorooctane 117 106 70-130 % 01.30.2021 00:03 o-Terphenyl 107 95 70-130 %

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3149479Matrix:SolidDate Prep:01.29.2021MB Sample Id:7720417-1-BLKLCS Sample Id:7720417-1-BKSLCSD Sample Id:7720417-1-BSD

MB Spike LCS LCS Limits %RPD **RPD** Units Analysis LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 01.30.2021 15:45 < 0.00200 0.100 0.0981 98 0.0929 5 35 Benzene 93 70-130 mg/kg 01.30.2021 15:45 Toluene < 0.00200 0.100 0.0987 99 0.0950 95 70-130 4 35 mg/kg 01.30.2021 15:45 Ethylbenzene 0.100 0.0940 94 0.0905 91 70-130 4 35 < 0.00200 mg/kg 01.30.2021 15:45 m,p-Xylenes < 0.00400 0.200 0.188 94 0.181 91 70-130 4 35 mg/kg 01.30.2021 15:45 < 0.00200 0.100 0.0930 93 0.0889 70-130 5 35 o-Xylene 89 mg/kg

Limits MB LCS LCS LCSD MB LCSD Units Analysis Surrogate %Rec Flag %Rec Flag Flag Date %Rec 01.30.2021 15:45 1,4-Difluorobenzene 99 104 104 70-130 % ** 70-130 % 01.30.2021 15:45 4-Bromofluorobenzene 133 109 102

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3149530Matrix:SolidDate Prep:01.31.2021MB Sample Id:7720445-1-BLKLCS Sample Id:7720445-1-BKSLCSD Sample Id:7720445-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis **Parameter** Result Limit Date Result Amount %Rec %Rec Result 01.31.2021 13:08 < 0.00200 0.100 0.124 124 0.0937 94 70-130 28 35 Benzene mg/kg 01.31.2021 13:08 100 70-130 27 35 Toluene < 0.00200 0.100 0.130130 0.0995 mg/kg Ethylbenzene 0.100 0.125 125 0.0999 70-130 22 35 01.31.2021 13:08 < 0.00200 mg/kg 0.256 35 01.31.2021 13:08 m,p-Xylenes < 0.00400 0.200 128 0.207 104 70-130 2.1 mg/kg < 0.00200 0.100 0.122 122 0.101 70-130 19 35 mg/kg 01.31.2021 13:08 o-Xylene 101

MB MB LCS LCS LCSD LCSD Limits Units Analysis Surrogate Flag Flag Flag %Rec %Rec %Rec Date 01.31.2021 13:08 1,4-Difluorobenzene 87 94 93 70-130 % 01.31.2021 13:08 4-Bromofluorobenzene 76 128 96 70-130 %

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100* (C) / [B] Log Diff = Log(Sample Duplica

 $Log\ Diff. = Log(Sample\ Duplicate) - Log(Original\ Sample)$

LCS = Laboratory Control Sample A = Parent Result

C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

QC Summary 686159

Etech Environmental & Safety Solution, Inc

Kersey State Battery

 Analytical Method:
 BTEX by EPA 8021B
 Prep Method:
 SW 5035A

 Seq Number:
 3149479
 Matrix:
 Soil
 Date Prep:
 01.29.2021

 Parent Sample Id:
 686156-006
 MS Sample Id:
 686156-006 S
 MSD Sample Id:
 686156-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0151	15	0.0111	11	70-130	31	35	mg/kg	01.30.2021 16:26	X
Toluene	< 0.00202	0.101	0.0143	14	0.0136	14	70-130	5	35	mg/kg	01.30.2021 16:26	X
Ethylbenzene	< 0.00202	0.101	0.0130	13	0.0113	11	70-130	14	35	mg/kg	01.30.2021 16:26	X
m,p-Xylenes	< 0.00403	0.202	0.0268	13	0.0230	12	70-130	15	35	mg/kg	01.30.2021 16:26	X
o-Xylene	< 0.00202	0.101	0.0168	17	0.0149	15	70-130	12	35	mg/kg	01.30.2021 16:26	X

Surrogate	MS %Rec	MS Mi Flag %l		Limits	Units	Analysis Date
1,4-Difluorobenzene	113	1)7	70-130	%	01.30.2021 16:26
4-Bromofluorobenzene	117	1	18	70-130	%	01.30.2021 16:26

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

 Seq Number:
 3149530
 Matrix:
 Soil
 Date Prep:
 01.31.2021

 Parent Sample Id:
 686159-004
 MS Sample Id:
 686159-004 S
 MSD Sample Id:
 686159-004 SD

Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
< 0.00199	0.0996	0.0218	22	0.0133	13	70-130	48	35	mg/kg	01.31.2021 13:59	XF
< 0.00199	0.0996	0.0164	16	0.0118	12	70-130	33	35	mg/kg	01.31.2021 13:59	X
< 0.00199	0.0996	0.00957	10	0.00526	5	70-130	58	35	mg/kg	01.31.2021 13:59	XF
< 0.00398	0.199	0.0250	13	0.0286	14	70-130	13	35	mg/kg	01.31.2021 13:59	X
0.0514	0.0996	0.0178	0	0.0115	0	70-130	43	35	mg/kg	01.31.2021 13:59	XF
	Result <0.00199 <0.00199 <0.00199 <0.00398	Result Amount <0.00199	Result Amount Result <0.00199	Result Amount Result %Rec <0.00199	Result Amount Result %Rec Result <0.00199	Result Amount Result %Rec Result %Rec <0.00199	Result Amount Result %Rec Result %Rec <0.00199	Result Amount Result %Rec Result %Rec <0.00199	Result Amount Result %Rec Result %Rec Limit <0.00199	Result Amount Result %Rec Result %Rec Limit <0.00199	Result Amount Result %Rec Result %Rec Limit Date <0.00199

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	63	**	69	**	70-130	%	01.31.2021 13:59
4-Bromofluorobenzene	122		75		70-130	%	01.31.2021 13:59



Chain of Custody

Work Order No: <u>U8U159</u>

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

	0900 Atlanta,GA (770) 44	19-8800 Tamp	pa,FL (813) 620-2000 West P	Palm Beach, FL (561) 689-6701	www.xenco.com	Page \ of \
Project Manager: Joe L Lowy	Bill to: (if different	Carmen	N Pitt		Work Order	Comments
company Name: Etech Environmental 3. Safety	Company Name:	Grizzly	Energy, LLC	Progran	m: UST/PST 🗌 PRP 🗍 Bro	wnfields RRC Superfund
Address: 3100 Plains Hwy	Address:			State	e of Project:	_
City, State ZIP: Lournaton NM 88260	City, State ZIP:			Reportin	ng:Level II 🔲 Level III 🔲 P	ST/UST TRRP Level IV
	PM@ etechen	w.com	+ client	Delivera	bles: EDD 🗌 ADa	PT Other:
Project Name: Kersey State Battery T	urn Around		AN	IALYSIS REQUEST		Preservative Codes
Project Number: 12652 Routi	ne Pres.					MeOH: Me
Project Location Rural Eddy County Rush	:					None: NO
Sampler's Name: Miguel Ramirez Due	Date:					HNO3: HN
PO#: Quote #:						H2S04: H2
SAMPLE RECEIPT Temp Blank: Yes No Wet Ice						HCL: HL
Temperature (°C):	Containers					NaOH: Na
Received Intact: Ves No	d is					Zn Acetate+ NaOH: Zn
Cooler Custody Seals: Yes No N/A Correction Factor Sample Custody Seals: Yes No N/A Total Containers		Chlorides	2			TAT starts the day recevied by the lab, if received by 4:00pm
lah Data Timo	<u>;</u>	13 F	797			received by 4.00pm
ID Sample Identification Matrix Sampled Sampled	Depth Depth	J 5 6	7			Sample Comments
FL1@8" 5 12421 09:00	8" 1	XX	IX I			
FL 208" 5 1-26-21 09:30	8"	XX				
FL3P8" 5 12621 10:00	811	XX				
PL 4@2' 5 12621 10:45	2' 1	XX	- X			
SP1-D 5 1.26.21 12:00	_ 1	XX				
SP2-D S 1.26-21 12:30	- 1	XX				
WH-D 5 1.26.21 1:00	- 1	XXX	(1)			
		ì				
				Co Cu Fe Pb Mg Mn M	lo Ni K Se Ag SiO2 N	a Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SP	LP 6010: 8RCRA 3	Sb As Ba	Be Cd Cr Co Cu Pb	Mn Mo Ni Se Ag TI U		1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

4	Relinguished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	/ Date/Time
1	While Kun		435/1-26	2 1 77 7	ATTI	107/21/15
5 3				4		
5				6		
22			***************************************			Revised Date 022619 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 01.27.2021 11.50.00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 686159

Temperature Measuring device used: IR8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping contain	er/ cooler? N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6*Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished	ed/ received? Yes	
#10 Chain of Custody agrees with sample lab	pels/matrix? Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated to	est(s)? Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	N/A	
#18 Water VOC samples have zero headspa	ce? N/A	
* Must be completed for after-hours delive	ry of samples prior to placing in the refrigo	erator

Analyst:		PH Device/Lot#:		
	Checklist completed by:	Brianna Teel	Date: <u>01.27.2021</u>	
	Checklist reviewed by:	Jessica Vramer	Date: 01 27 2021	

Jessica Kramer



February 02, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: KERSEY STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/01/21 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/01/2021 Sampling Date: 02/01/2021

Reported: 02/02/2021 Sampling Type: Soil

Project Name: KERSEY STATE BATTERY Sampling Condition: ** (See Notes)

Project Number: 12652 Sample Received By: Tamara Oldaker

Project Location: RURAL EDDY - GRIZZLY ENERGY

Sample ID: EW 2B (H210249-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	02/02/2021	ND	400	100	400	4.08	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Rush!

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

of 1

ANALYSIS REQUEST

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

(5/5) 393-2326 FAX (5/5) 656 2415 Control Solutions	Inc	BILL TO		ANALYSIS REQUEST	$\overline{}$
ompany Name: Etech Environmental & Safety Solutions,	III O.	P.O. #:			
roject Manager: Jee Lowry		Company: E Tech			
ddress: P.O. Box 301	88260	Attn:			
ty: Lovington					
hone #: (575) 396-2378 Fax #: (575) 396-1		Address:			
roject #: \252 Project Owner: G	rizzly	City:	8 8 8		
Project Name: Kersey State Battery Project Location: Kersey State Battery		State: Zip:	Chloride TPH (8015M) BTEX (8021B)		
roject Location: Kessey State Batery		Phone #:	을 (8) X		
sampler Name: Spencer Black wood		Fax #: PRESERV. SAMPLING			
EOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	_ -		
Lab I.D. Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:			
ZAB RAB	# CONT GROUP WASTE SOIL OIL	SLUDGE OTHER: CE / COC OTHER:	TIME		
12 [00]	# CG GRC WAS	2 0 8 0 0 DATE	./		
I EW2B G		V 0-1-91	- I		
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any c	nim arising whether based in con	ntract or tort, shall be limited to the amount paid by	the client for the		
PLEASE NOTE: Liebility and Damages, Cardinal's liability and client's exclusive remedy for any of analyses. All claims including those for negligence and any other cause whatsoever shall be deer service. In no event shall Cardinal be liable for incidental or consequential damages, including with the dependence of services because of the services are serviced.	med waived unless made in writing	ng and received by Cardinal within 30 days after co tions, loss of use, or loss of profits incurred by clien	mpleton of the appacause t, its subsidiaries,		
service. In no event shall Cardinal be liable to incommand of services hereunder by Card	nal, regardless of whether such o	claim is based upon any of the above stated reason	hone Result: Yes	□ No Add'l Phone #:	
Relinquished by:	Received By: Jamare		ax Result:	□ No Add'l Fax #:	
Relinquished By: Date:	Received By:				
Time:			Please email results to p	om@elechenv.com.	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 19-9:	Sample Cor Cool Inta	ondition CHECKED BY: (Initials) Tyes No			
Cultiple:		110			

FORM-006 Revision 1.0 Page 4 of



February 03, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: KERSEY STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/01/21 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 02/01/2021 Sampling Date: 02/01/2021

Reported: 02/03/2021 Sampling Type: Soil
Project Name: KERSEY STATE BATTERY Sampling Condition: ** (See Notes)

Project Number: 12652 Sample Received By: Tamara Oldaker

4 -- - l- -- - - I D- -- CM

Project Location: RURAL EDDY - GRIZZLY ENERGY

---- /1---

Sample ID: ND (H210250-01)

Chi--id- CM4E00CL B

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/03/2021	ND	416	104	400	3.92	
Sample ID: ED (H210250-02)									
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/03/2021	ND	416	104	400	3.92	
Sample ID: SD (H210250-03)									
Chloride, SM4500CI-B	mg/kg		Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/03/2021	ND	416	104	400	3.92	
Sample ID: WD (H210250-04)									
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride									

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

Rostine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of

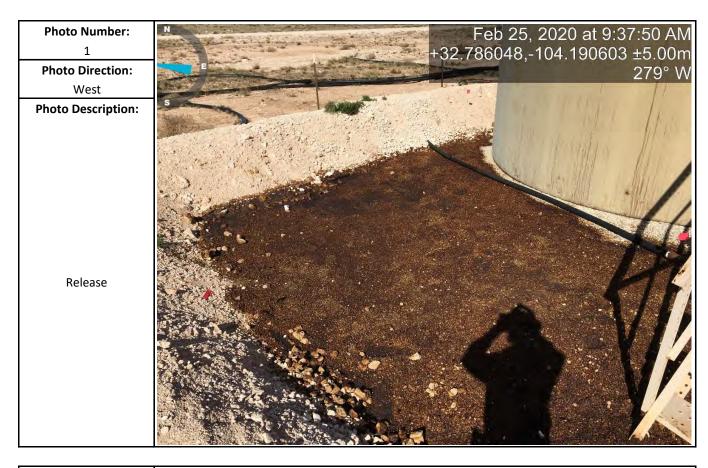
	FAX (575) 393-24	ons	Inc						BI	ILL	TO					A	NAL	YSIS	RE	QUES	51			
	ental & Safety Soluti	3110					P.0																	
oject Manager: Joe Lowry							Company: ETech								- 1								- 1	
Idress: P.O. Box 301	State: NM	Zip:	8826	80			Attn:															- 1		
ty: Lovington	Fax #: (575) 3	•					Add	dress	s:														- 1	
none #: (575) 396-2378	Project Owner			- 4			Cit	v:						_	£								- 1	
roject#: 12652		. 6	112	-13			Sta			Zi	p:		9	2W	121E								- 1	
roject Name: Kersey State	Dattery						-	one :	#:				Chloride	TPH (8015M)	BTEX (8021B)								- 1	
oject Location: Kersey Sta	te battery							x #:					등	표	Ě									
ampler Name: Spencer Blee	Kuend	Т	П		MATE	XIX			SER\	V.	SAMPLIN	IG	1	F	B									
Lab I.D. Sample	e I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
210250		G	1		1/				1	1	1-1-21		1	-	-	-	-	+	+	+	+			
2 F D		G	i		1				1	_	1-1-21		1	-	-	-	\vdash	+	-	+	+			
0.0		G	T		V				V	ó	1 -11		1	+	+	-	+	+	+	+	+			
3 5 D		G	1		1				1	- 6	2-1-21		1	-	+	-	+	+	+	+	+			
4 4 0							1			1			+	-	+	1	+	1						
								1		+		_	+	+	+	+	+							1
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			1		-		+	+		+		_	+	+	+									
						in contr	art or	tort she	Il be lim	nited to	the amount p	aid by the client	for the											
PLEASE NOTE: Liability and Damages, Cardinal's liability analyses. All claims including those for negligence and are	y and client's exclusive remedy f ny other cause whatsoever shall	be deer	aim ans ned wai	red unles	s made i	n writing	and re	ceived I	by Card	dinal wit	thin 30 days at fits incurred by	ter completion client, its subs	of the app idiaries,	Scable										
PLEASE NOTE: Liability and Damages, Cardinars securi- analyses, All claims including those for negligence and as service. In no event shall Cardinal be liable for incidental affiliates or successors arising out of or related to the perf	or consequental damages, inclu ormance of services hereunder	ding with by Cardi	nout limi	ardless of	whether	such d	aim is I	based u	pon any	y of the	above stated	Phone	Result			□ No		l'I Phoi						
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:	19.9 c	#	113		Cool Ye	Intar	ct				ED BY: ials)													

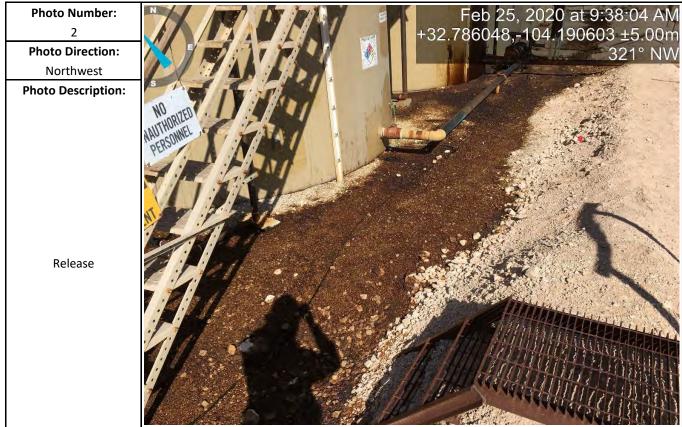
FORM-006 Revision 1.0 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Released to Imaging: 7/15/2021 8:23:36 AM

Page 4 of 4

Appendix D Photographic Log





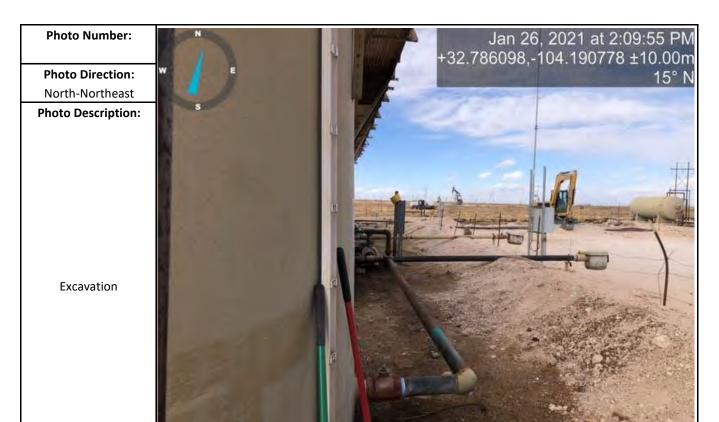




Photo Number:

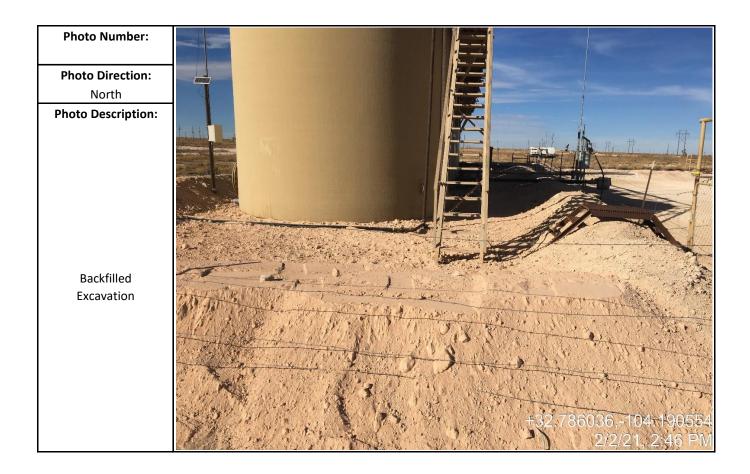
Photo Direction:
North

Photo Description:

Excavation







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

Page 114 of 115

	1 1180 111 0) 1
Incident ID	nRM2004550944
District RP	
Facility ID	
Application ID	

Remediation 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(✓ Proposed schedule for remediation (note if remediation plan timeline) 	
Deferral Requests Only: Each of the following items must be confin	med as part of any request for deferral of remediation.
✓ Contamination must be in areas immediately under or around prod deconstruction.	uction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
✓ Contamination does not cause an imminent risk to human health, the	ne environment, or groundwater.
email: cstuart@contango.com	rain release notifications and perform corrective actions for releases e of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, septance of a C-141 report does not relieve the operator of
OCD Only Depart Hamlet	Date: 7/14/2021
Received by: Robert Hamlet Approved Approved with Attached Conditions of Approved wi	
Signature: Robert Hamlet De	nte: 7/14/2021

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

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 23336

CONDITIONS

Operator:	OGRID:
Contango Resources, Inc.	330447
717 Texas Ave.	Action Number:
Houston, TX 77002	23336
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
Ву		Date
rhamlet	Contango Oil's deferral request to complete final remediation of soil sample locations FL1@8", FL2@8", FL3@8", SP1-D, and SP2-D during any future major deconstruction/alteration and/or	7/15/2021
	abandonment, whichever occurs first is approved by the OCD at this time. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in	
	OCD database files and reflect an open environmental issue.	