Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	nJMW1335341610
District RP	2RP-2122
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	107 (ft bgs)					
Did this release impact groundwater or surface water?	☐ Yes ☑ No					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?						
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No					
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No					
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No					
Are the lateral extents of the release overlying an unstable area such as karst geology?						
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No					
Did the release impact areas not on an exploration, development, production, or storage site?	✓ Yes ☐ No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil					
Characterization Report Checklist: Each of the following items must be included in the report.						
 ✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data ✓ Data table of soil contaminant concentration data ✓ Depth to water determination ✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ✓ Boring or excavation logs ✓ Photographs including date and GIS information ✓ Topographic/Aerial maps ✓ Laboratory data including chain of custody 	ls.					

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

Form C-141 Page 4

State of New Mexico Oil Conservation Division

Incident ID	nJMW1335341610
District RP	2RP-2122
Facility ID	
Application ID	

regulations all operators are required to report and/or file certain release notion public health or the environment. The acceptance of a C-141 report by the Carlied to adequately investigate and remediate contamination that pose a three addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name: Carmen E Pitt	Title: Senior HSE Specialist
Signature: Carmen Pitt	Date: 11/11/2020
email: cpitt@grizzlyenergyllc.com	Telephone: 432-248-8145
OCD Only	
Received by:	Date:

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and

Form C-141 Page 5

State of New Mexico Oil Conservation Division

Incident ID	nJMW1335341610
District RP	2RP-2122
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
 ✓ Detailed description of proposed remediation technique ✓ Scaled sitemap with GPS coordinates showing delineation points ✓ Estimated volume of material to be remediated ✓ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ✓ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Carmen E Pitt Title: Senior HSE Specialist
Signature: Carmen Pitt Date: 11/11/2020
email:cpitt@grizzlyenergyllc.com Telephone:432-248-8145
OCD Only
Received by: Date:
☐ Approved
Signature: Bradford Billings Date: 12/07/2020 See BELOW

Boring placed first to identify 55 feet (more or less) for depth to water check, adjust to tighter Table 1 standards if groundwater is encountered at less than 51 feet.

Site Assessment Report and Amended Remediation Workplan

Grizzly Energy, LLC Kersey State Battery Historical

Eddy County, New Mexico
Unit Letter P, Section 32, Township 17 South, Range 28 East
Latitude 32.78605 North, Longitude 104.19039 West
NMOCD Reference No. 2RP-2122

Prepared By:

Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway Lovington, New Mexico 88260

Lance Crenshaw

Joel W. Lowry



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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Grizzly Energy, LLC, has prepared this Report for the Release Site known as the Kersey State Battery Historical. Details of the release are summarized below:

			Locatio	on of Release So	ource		
Latitude:		32.7	78605	Longitude:	-104.19039		
			Provide	ed GPS are in WGS84 form	nat.		
Site Name:			Battery Historical	Site Type:	Tank Battery		
Date Release Dis	scovered	:	12/12/2013	API # (if applie	cable): 30-015-30889		
Unit Letter	Secti	on	Township	Range	County		
P	32		17S	28E	Eddy		
Surface Owner:	X State	; <u> </u>	Federal Tribal Nature ar	Private (Nat			
X Crude Oil	,	Volum	e Released (bbls)	10	Volume Recovered (bbls) 5		
Produced V	Vater	Volum	e Released (bbls)		Volume Recovered (bbls)		
			oncentration of disso ed water > 10,000 mg		e Yes No N/A		
Condensate Volume Released (bbls) Volume Recovered (bbls)							
Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)							
Other (describe) Volume/Weight Released Volume/Weight Recovered							
Cause of Release Heater treater g fluid.		ew out,	spraying oil onto gro	ound and some veg	etation outside of berms. Picked up standing		
			In	nitial Response			
X The source	of the rel	ease ha	as been stopped.				
X The impacted	d area ha	s been	secured to protect hun	nan health and the en	nvironment.		
					absorbent pad, or other containment devices		
X All free liqui	ids and re	ecovera	able materials have been	en removed and man	aged 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 Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, an investigative soil bore will be advanced to 55 Ft. bgs at the location in an effort to determine if shallow groundwater is present. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	~107'
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?	X Yes 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.

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 for the Site is as follows:

Closure Criteria for Soil Impacted by a Release							
Probable Depth to Groundwater	Constituent	Method	Limit				
	Chloride	EPA 300.0 or SM4500 Cl B	20000 mg/kg				
~107'	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg				
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg				
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg				
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg				

4.0 INITIAL SITE ASSESSMENT

On May 14, 2019, Lowry Environmental conducted an initial site assessment. Twelve (12) soil samples (V1 @ Surf., V1 @ 12", V1 @ 18" R, V2 @ Surf., V2 @ 12", V2 @ 20" R, V3 @ Surf, V3 @ 12", V3 @ 24" R, V4 @ Surf, V4 @ 12" and V4 @ 16" R) were collected from within the release margins in an effort to determine the vertical extent of soil impact. In addition, twelve (12) soil samples (NH @ Surf, NH @ 6", EH1 @ Surf, EH2 @ Surf, EH2 @ 6", SH @ Surf, SH @ 6", WH1 @ Surf, WH1 @ 6", WH2 @ Surf and WH2 @ 6") were collected from the inferred edges of the affected area in an effort to determine the horizontal extent of soil impact. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations.

Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Analytical results indicated additional delineation of impacted soil affected above the NMOCD Reclamation Standard would be required in the area characterized by sample point V1.

On February 25, 2020, Etech revisited the Site. During the site visit, a hand-augered soil bore was advanced in the are characterized by sample point V1. During the advancement of the hand-augered soil bore, one (1) soil sample (V1 @ 2' - R) was collected and submitted to the laboratory for analysis of chloride concentrations which were determined to be 4,960 mg/kg.

On March 20, 2020, Etech revisited the Site. During the site visit, a test trench was advanced in the are characterized by sample point V1. During the advancement of the test trench, two (2) soil samples (V1 @ 3' and V1 @ 4') were collected and submitted to the laboratory for analysis of chloride concentrations which were determined to be 576 and 112 mg/kg, respectively.

Based on the laboratory analytical results, soil within the earthen bermed facility was not affected above the NMOCD Closure Criteria, soil outside the earthen bermed facility was not affected above the NMOCD Reclamation Standard beyond 3' bgs and the horizontal extent of the affected area was adequately defined.

A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

5.0 AMENDED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Grizzly Energy, LLC proposes the following remediation activities designed to advance the Site toward an approved closure:

- •Advance an investigative soil boring to 55 Ft. bgs in an effort to determine if shallow groundwater is present.
- •Further delineate the western portion of the affected area to 600 mg/kg chloride and 100 mg/kg TPH.
- •Utilizing mechanical equipment, excavate impacted soil affected above the NMOCD Reclamation Standard in the area characterized by sample point V1 to an estimated depth of 3 ft. bgs utilizing mechanical equipment.
- •The floor and sidewalls of the excavated area will be advanced until laboratory analytical results indicate BTEX, TPH, and chloride concentrations are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard.
- •Visibly impacted soil present within the earthen containment will be excavated to the maximum extent practicable.
- •Excavated soil will be stockpiled on-site, then transported 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.
- •Upon completion of remediation activities, a Remediation Summary and Closure Request will be prepared detailing remediation activities and laboratory analytical results from confirmation soil samples.
- •Reclamation of impacted soil affected above the NMOCD Reclamation Standard present within the active facility will be conducted in accordance with NMAC 19.15.29.13 upon abandoning and decommissioning the facility.

6.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear ft. A minimum of one (1) representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every 200 square feet. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

7.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within 90 days of receiving necessary approval(s) of the Site Assessment Summary and Amended Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately **95 cubic yards** is in need of removal.

8.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Report and Proposed Remediation Plan 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 Grizzly Energy, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Grizzly Energy, LLC.

10.0 DISTRIBUTION

Grizzly Energy, LLC 4001 Penbrook Suite 201 Odessa, TX 79762

New Mexico Energy, Minerals and Natural Resources Department

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

Hobbs Field Office

New Mexico State Land Office 2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

(Electronic Submission)

Figure 1 Topographic Map

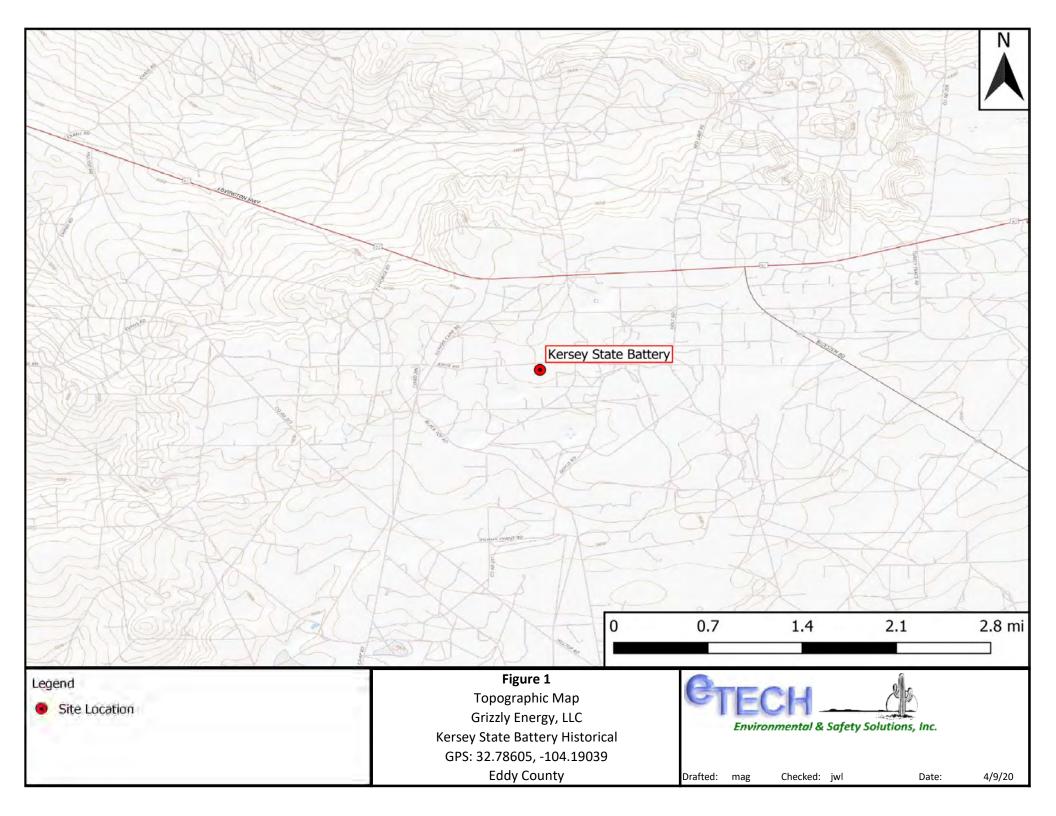


Figure 2 Aerial Proximity Map

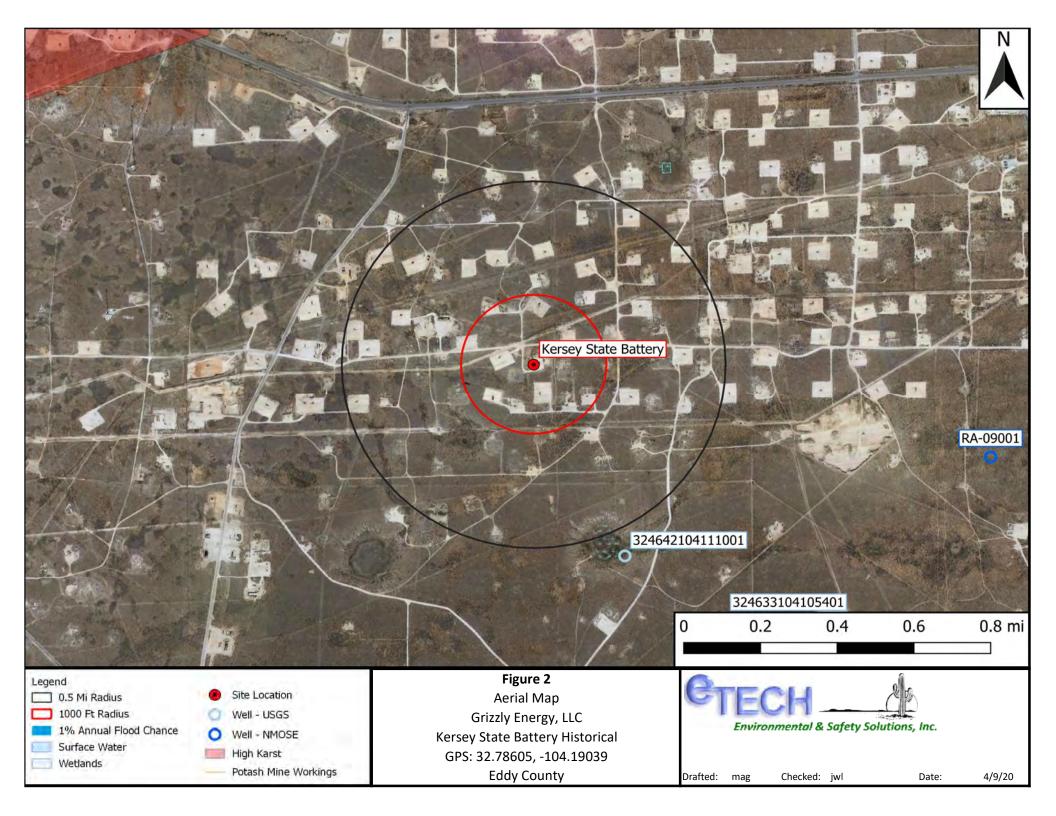
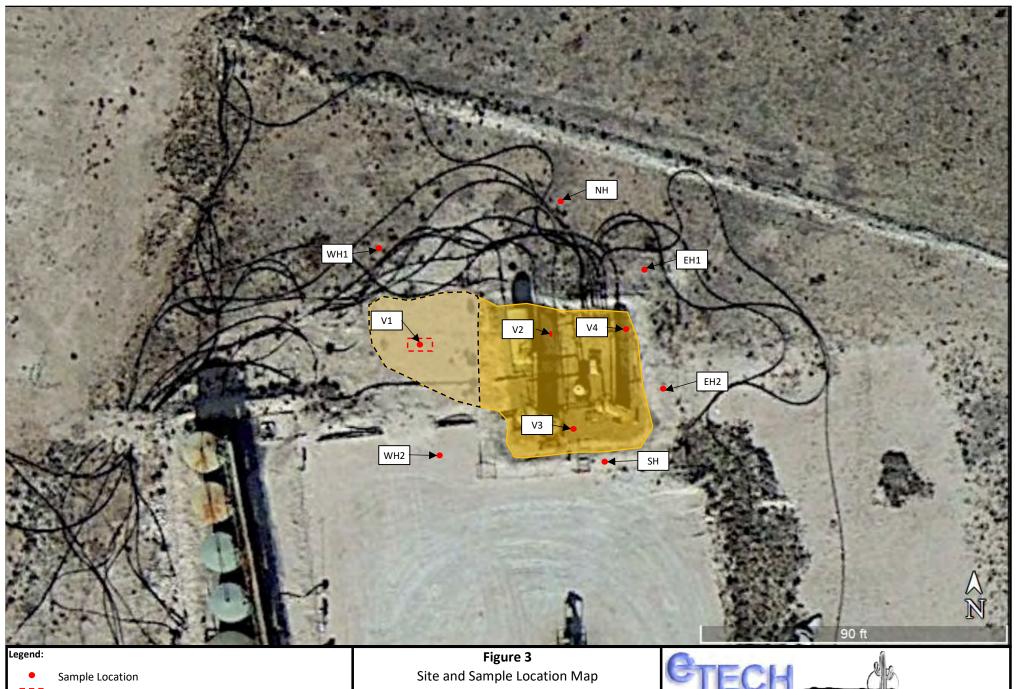


Figure 3 Site and Sample Location Map





Grizzly Energy, LLC Kersey State Battery Historical

GPS: 32.78605, -104.19039 **Eddy County**



Drafted: dd Checked: jwl Date: 5/1/20

Table 1 Concentrations of BTEX, TPH, and/or Chloride in Soil

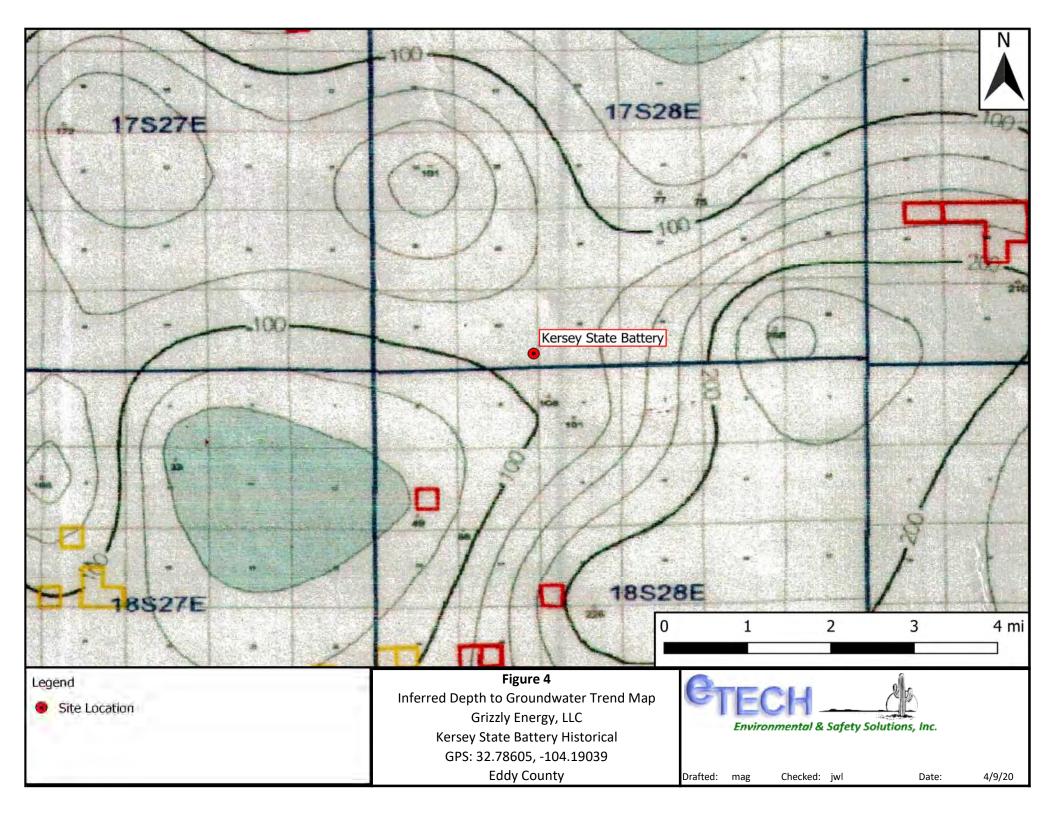
TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL

Grizzly Energy, LLC Kersey State Battery Historical NMOCD Ref. #: 2RP-2122

NMOCD Closure Criteria		10	50	-	-	1000	-	2500	20000		
				SW 846	6 8021B		SW 846 8015M Ext.			4500 Cl	
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
V1 @ Surf	5/14/2019	Surf.	In-Situ	ND	ND	ND	ND	ND	ND	ND	9,900
V1 @ 12"	5/14/2019	12"	In-Situ	-	ı	1	-	1	ı	ı	6,600
V1 @ 18" R	5/14/2019	18"	In-Situ	ND	ND	ND	85.0	85.0	110	195	6,300
V2 @ Surf	5/14/2019	Surf.	In-Situ	ND	ND	ND	ND	ND	ND	ND	19,000
V2 @ 12"	5/14/2019	12"	In-Situ	-	ı	1	-	1	ı	ı	11,000
V2 @ 20" R	5/14/2019	20"	In-Situ	ND	ND	ND	210	210	210	420	11,000
V3 @ Surf	5/14/2019	Surf.	In-Situ	ND	ND	ND	20.0	20.0	ND	20.0	6,700
V3 @ 12"	5/14/2019	12"	In-Situ	-	ı	1	-	1	1	ı	4,600
V3 @ 24" R	5/14/2019	24"	In-Situ	ND	ND	ND	190	190	250	440	4,200
V4 @ Surf	5/14/2019	Surf.	In-Situ	ND	ND	ND		30.0	65.0	95.0	10,000
V4 @ 12"	5/14/2019	12"	In-Situ	-	-	-	-	-	-	-	5,100
V4 @ 16" R	5/14/2019	16"	In-Situ	ND	ND	ND	70.0	70.0	120	190	6,300
NH @ Surf	5/14/2019	Surf.	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
NH @ 6"	5/14/2019	6"	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
EH1 @ Surf	5/14/2019	Surf.	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
EH1 @ 6"	5/14/2019	6"	In-Situ	ND	ND	ND	ND	ND	ND	ND	62.0
EH2 @ Surf	5/14/2019	Surf.	In-Situ	ND	ND	ND	ND	ND	ND	ND	200
EH2 @ 6"	5/14/2019	6"	In-Situ	ND	ND	ND	ND	ND	ND	ND	360
SH @ Surf	5/14/2019	Surf.	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SH @ 6"	5/14/2019	6"	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
WH1 @ Surf	5/14/2019	Surf.	In-Situ	ND	ND	ND	ND	ND	ND	ND	2,000
WH1 @ 6"	5/14/2019	6"	In-Situ	ND	ND	ND	ND	ND	ND	ND	550
WH2 @ Surf	5/14/2019	Surf.	In-Situ	ND	ND	ND	26.0	26.0	98.0	124	350
WH2 @ 6"	5/14/2019	6"	In-Situ	ND	ND	ND	12.0	12.0	76.0	88.0	350
V1 @ 2' - R	2/25/2020	2'	In-Situ	-	-	-	-	1	-	-	4,960
V1 @ 3'	3/20/2020	3'	In-Situ	-	-	-	-	-	-	-	576
V1 @ 4'	3/20/2020	4'	In-Situ	-	-	-	-	-	-	-	112

Appendix A Depth to Groundwater Information





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

 \mathbf{X}

577784

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

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

closed)

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

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

(In feet)

POD

Sub- Q Q Q C Code basin County 64 16 4

Water DistanceDepthWellDepthWater Column

POD Number RA 11857 POD1
 basin
 County
 64 16 4 Sec
 Tws
 Rng

 RA
 ED
 1 1 2 0 5 18S 26E

3625988

2731 235

95 140

Average Depth to Water:

95 feet

Minimum Depth:

95 feet

Maximum Depth:

95 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 575790

Northing (Y): 3627854.28

Radius: 3220

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

WATER COLUMN/ AVERAGE DEPTH TO

WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

RA 11857 POD1

1 2 05 18S 26E

577784 3625988

Driller License: 1064

Driller Company:

Driller Name: MART

MARTIN, DELFORD

Drill Start Date: 09/25/2012

09/23/2012

Drill Finish Date:

10/01/2012

Top Bottom Description

DELFORD W. MARTIN

Plug Date:

Source:

Shallow

Log File Date: Pump Type: 10/15/2012

PCW Rcv Date: Pipe Discharge Size:

Estimated Yield:

: 95 GPM

Casing Size:

5.00

Depth Well:

235 feet **Depth Water:**

95 feet

Water Bearing Stratifications:

95

130 Sandstone/Gravel/Conglomerate

160

235 Sandstone/Gravel/Conglomerate

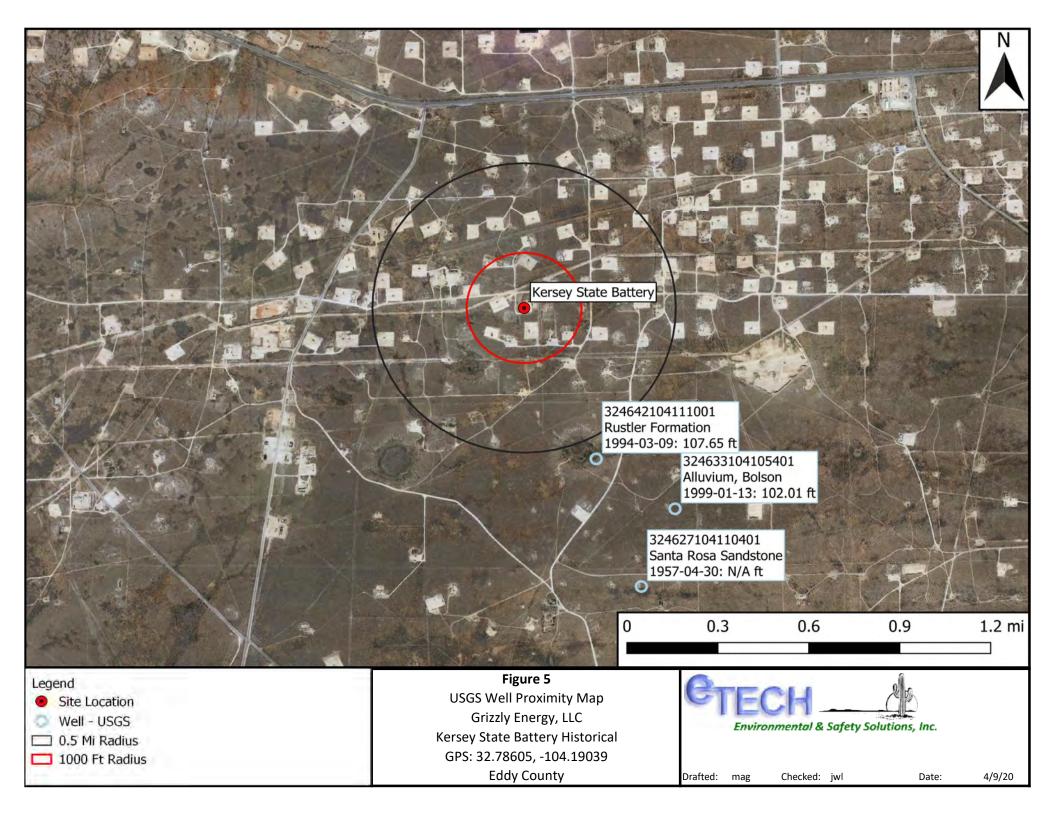
Casing Perforations:

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





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 = 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

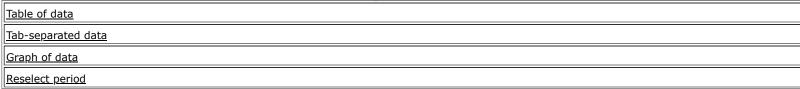
nyarologic Utili Code 13060011 Latituda 32946'33" Langituda 10

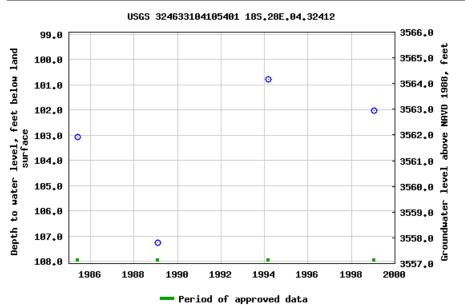
Latitude 32°46'33", Longitude 104°10'54" NAD27

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





Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u> Questions about sites/data?
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Automated retrievals
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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-02-12 12:01:36 EST

0.61 0.46 nadww01





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 = usgs 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.

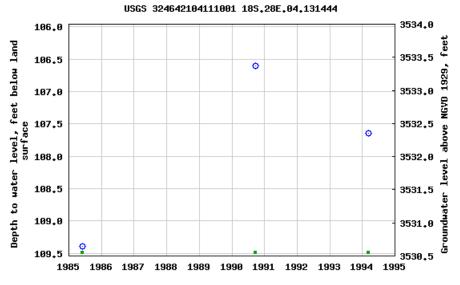
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats Table of data

<u>Graph of data</u>

<u>Reselect period</u>

Tab-separated data



- 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> Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-02-12 12:01:37 EST

0.54 0.46 nadww01



Appendix B Field Data and Soil Profile Logs

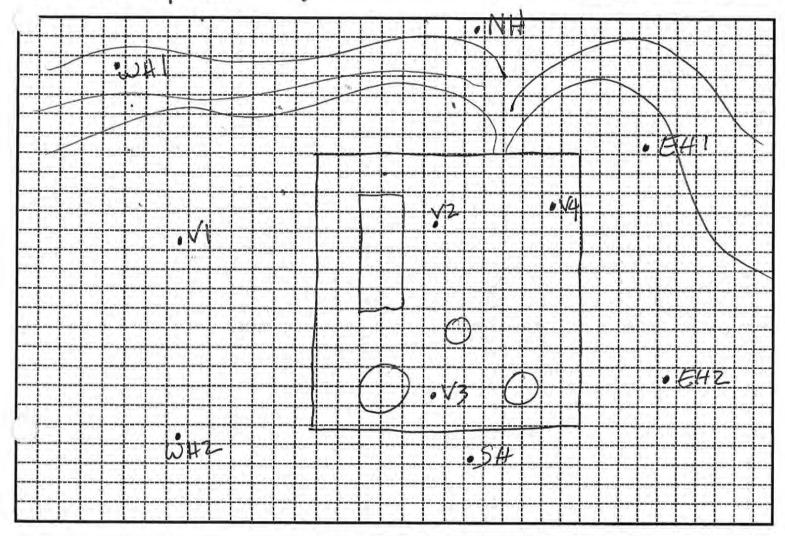
SAMPLE LOG

Date: 5-14-19

Sample ID	Latitude	Longitude	Chloride	Odor	BTOU TALL!
VI@ SWF	32.78609	-104.19008	/		
			72,424		ci-
VIO 18112			1011		BTUX TOU, C
MG 19.15					
1000	20 -0111	1000		-	
12cosw+	32.78616	- 104. 19008	- 000		-
1300 M	"		72,428.		
120 20° R					
000		VIII TO LOCAL			
1200 c. rf	32.78624	-104.19010			
1305wf	30.10004	-10 1 .1 .010	72,428		
V30 17			10112.		
V-30 24"R				-	-
V40 SWY	32.786.32	-104.1900			
V40 0000	10.07		72,428		
1/40 1110					
V4016"F					7
N 0 = 0	20 70/ "	14/110000	1100		BTEA, TPIG, CI
NHOSWIT	32.7841	-104.19008	<108		13.6.1
NHQ 6"					4 ***
EHII-OSUNT	32.78615	-104.18993			
EH106"			<108		
EH ZOSUNS	32.78429	-104 18996			
	34. 10 UZ.	10 / 4 4 1 10	200		
EHZO6"	20 1000	my and	3000		7
SHOSurt	32.78593	-104.ADOS	Donos		
SHO 6"			0000		
WH1054	32.78610	-104. 19019			
211/00/101			504		10
11120 SING	32.78622	-104 19023			
NI CO JUI	201. 10000	1.1.1	280		
110011			200		
					-
					-
				-	-
					-
					4
					4
			-		=
				-	
					- V

Site Name: Kersey State

Date: 5-14-19



Field ID	Odor/PID	Chloride
	1000	
	7 - 1	

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride
)	

Field ID	Odor/PID	Chloride
	-	

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride
-		
		-



Sample Log

Date:

2/25/20

Project: Kersey State Battery Historical

Project Number: pending Latitude: 32.78605 Longitude: -104.19039

Sample ID	PID/Odor	Chloride Conc.	GPS
VI @ 80-3" VI @ 1' VI @ Z'-R		72416 12:45 72416 12:50 72416 12:55	
VI @ I'	_	72416 12:50	
VI e 2'-R		2241/2 12:55	
		7 = 116	
5-20-20 VI at 3 for VI at 4 for			
14 - 26 -		200	
VI as 3/2	no	2.6-75 = 300	
Vi and 4/1	m	0.8 NO ND	
1.00			
		Commence of the Commence of th	

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



Was horizontal and vertical delineation achieved?

Initial Release Assessment Form

3-20-20 Date: Project: Kersey State Battery Historical Clean Up Level: 600 mg/kg Cl-, 100 mg/kg TPH pending Project Number: Latitude: 32.78605 Longitude: -104.19039 Site Diagram hear bear Notes: ~Length: ~Width: ~Area: ~Depth: Yes No 3-4 Representative Pictures of the Affected Area including sample locations? Necessary Samples Field Screened and on Ice? Sample and Field Screen Data Entered on Sample Log?



Soil Profile

Appendix C Laboratory Analytical Reports



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 28, 2019

Joel Lowry Caprock Services, LLC PO Box 457 Lovington, NM 88260 TEL: (575) 704-2718

FAX

RE: Kersey State Battery OrderNo.: 1905961

Dear Joel Lowry:

Hall Environmental Analysis Laboratory received 24 sample(s) on 5/18/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC Client Sample ID: V1 @ Surf

 Project:
 Kersey State Battery
 Collection Date: 5/14/2019 9:00:00 AM

 Lab ID:
 1905961-001
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/22/2019 10:00:45 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/22/2019 10:00:45 AM
Surr: DNOP	110	70-130	%Rec	1	5/22/2019 10:00:45 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/21/2019 6:01:10 PM
Surr: BFB	88.3	73.8-119	%Rec	1	5/21/2019 6:01:10 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/21/2019 6:01:10 PM
Toluene	ND	0.049	mg/Kg	1	5/21/2019 6:01:10 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/21/2019 6:01:10 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/21/2019 6:01:10 PM
Surr: 4-Bromofluorobenzene	96.9	80-120	%Rec	1	5/21/2019 6:01:10 PM
EPA METHOD 300.0: ANIONS					Analyst: smb
Chloride	9900	600	mg/Kg	200	5/23/2019 4:25:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC

Client Sample ID: V1 @ 12"

Project: Kersey State Battery Collection Date: 5/14/2019 9:05:00 AM

Lab ID: 1905961-002 **Matrix:** SOIL **Received Date:** 5/18/2019 10:10:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	6600	300	mg/Kg	100	5/24/2019 6:13:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 29

Lab Order **1905961**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Caprock Services, LLC

Client Sample ID: V1 @ 18" R

 Project:
 Kersey State Battery
 Collection Date: 5/14/2019 9:10:00 AM

 Lab ID:
 1905961-003
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst: JME
Diesel Range Organics (DRO)	85	9.6		mg/Kg	1	5/24/2019 8:27:53 PM
Motor Oil Range Organics (MRO)	110	48		mg/Kg	1	5/24/2019 8:27:53 PM
Surr: DNOP	140	70-130	S	%Rec	1	5/24/2019 8:27:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/21/2019 7:09:11 PM
Surr: BFB	85.5	73.8-119		%Rec	1	5/21/2019 7:09:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/21/2019 7:09:11 PM
Toluene	ND	0.048		mg/Kg	1	5/21/2019 7:09:11 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/21/2019 7:09:11 PM
Xylenes, Total	ND	0.097		mg/Kg	1	5/21/2019 7:09:11 PM
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	5/21/2019 7:09:11 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	6300	300		mg/Kg	100	5/24/2019 6:25:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **1905961**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Caprock Services, LLC Client Sample ID: V2 @ Surf

Project: Kersey State Battery
 Collection Date: 5/14/2019 9:15:00 AM

 Lab ID: 1905961-004
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/22/2019 11:29:15 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/22/2019 11:29:15 AM
Surr: DNOP	167	70-130	S	%Rec	1	5/22/2019 11:29:15 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/21/2019 8:16:53 PM
Surr: BFB	87.7	73.8-119		%Rec	1	5/21/2019 8:16:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/21/2019 8:16:53 PM
Toluene	ND	0.050		mg/Kg	1	5/21/2019 8:16:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/21/2019 8:16:53 PM
Xylenes, Total	ND	0.099		mg/Kg	1	5/21/2019 8:16:53 PM
Surr: 4-Bromofluorobenzene	94.7	80-120		%Rec	1	5/21/2019 8:16:53 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	19000	600		mg/Kg	200	5/24/2019 6:38:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC

Client Sample ID: V2 @ 12"

 Project:
 Kersey State Battery
 Collection Date: 5/14/2019 9:20:00 AM

 Lab ID:
 1905961-005
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 11000
 600
 mg/Kg
 200
 5/24/2019 6:50:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC Client Sample ID: V2 @ 20" R

 Project:
 Kersey State Battery
 Collection Date: 5/14/2019 9:25:00 AM

 Lab ID:
 1905961-006
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	210	9.6	mg/Kg	1	5/24/2019 5:11:51 PM
Motor Oil Range Organics (MRO)	210	48	mg/Kg	1	5/24/2019 5:11:51 PM
Surr: DNOP	107	70-130	%Rec	1	5/24/2019 5:11:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/21/2019 8:39:30 PM
Surr: BFB	90.4	73.8-119	%Rec	1	5/21/2019 8:39:30 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/21/2019 8:39:30 PM
Toluene	ND	0.049	mg/Kg	1	5/21/2019 8:39:30 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/21/2019 8:39:30 PM
Xylenes, Total	ND	0.099	mg/Kg	1	5/21/2019 8:39:30 PM
Surr: 4-Bromofluorobenzene	97.2	80-120	%Rec	1	5/21/2019 8:39:30 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	11000	600	mg/Kg	200	5/24/2019 7:03:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **1905961**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Caprock Services, LLC Client Sample ID: V3 @ Surf

 Project:
 Kersey State Battery
 Collection Date: 5/14/2019 9:30:00 AM

 Lab ID:
 1905961-007
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				Analyst: JME
Diesel Range Organics (DRO)	20	9.9	mg/Kg	1	5/24/2019 6:00:49 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/24/2019 6:00:49 PM
Surr: DNOP	113	70-130	%Rec	1	5/24/2019 6:00:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/21/2019 9:02:03 PM
Surr: BFB	89.9	73.8-119	%Rec	1	5/21/2019 9:02:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/21/2019 9:02:03 PM
Toluene	ND	0.048	mg/Kg	1	5/21/2019 9:02:03 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/21/2019 9:02:03 PM
Xylenes, Total	ND	0.096	mg/Kg	1	5/21/2019 9:02:03 PM
Surr: 4-Bromofluorobenzene	98.0	80-120	%Rec	1	5/21/2019 9:02:03 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	6700	300	mg/Kg	100	5/24/2019 7:15:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC

Client Sample ID: V3 @ 12"

 Project:
 Kersey State Battery
 Collection Date: 5/14/2019 9:35:00 AM

 Lab ID:
 1905961-008
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

 Analyses
 Result
 RL Qual Units
 DF
 Date Analyzed

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 4600
 150
 mg/Kg
 50
 5/24/2019 7:27:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC Client Sample ID: V3 @ 24" R

 Project:
 Kersey State Battery
 Collection Date: 5/14/2019 9:40:00 AM

 Lab ID:
 1905961-009
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: JME				
Diesel Range Organics (DRO)	190	9.7	mg/Kg	1	5/24/2019 6:49:38 PM
Motor Oil Range Organics (MRO)	250	48	mg/Kg	1	5/24/2019 6:49:38 PM
Surr: DNOP	115	70-130	%Rec	1	5/24/2019 6:49:38 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/21/2019 9:24:36 PM
Surr: BFB	90.1	73.8-119	%Rec	1	5/21/2019 9:24:36 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/21/2019 9:24:36 PM
Toluene	ND	0.049	mg/Kg	1	5/21/2019 9:24:36 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/21/2019 9:24:36 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/21/2019 9:24:36 PM
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	5/21/2019 9:24:36 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	4200	150	mg/Kg	50	5/24/2019 8:05:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC

Client Sample ID: V4 @ Surf

 Project:
 Kersey State Battery
 Collection Date: 5/14/2019 9:45:00 AM

 Lab ID:
 1905961-010
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: JME
Diesel Range Organics (DRO)	30	9.9	mg/Kg	1	5/24/2019 11:43:59 PM
Motor Oil Range Organics (MRO)	65	49	mg/Kg	1	5/24/2019 11:43:59 PM
Surr: DNOP	83.8	70-130	%Rec	1	5/24/2019 11:43:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/21/2019 9:47:08 PM
Surr: BFB	91.3	73.8-119	%Rec	1	5/21/2019 9:47:08 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/21/2019 9:47:08 PM
Toluene	ND	0.049	mg/Kg	1	5/21/2019 9:47:08 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/21/2019 9:47:08 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/21/2019 9:47:08 PM
Surr: 4-Bromofluorobenzene	98.1	80-120	%Rec	1	5/21/2019 9:47:08 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	10000	600	mg/Kg	200	5/24/2019 8:17:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC

Client Sample ID: V4 @ 12"

 Project:
 Kersey State Battery
 Collection Date: 5/14/2019 9:50:00 AM

 Lab ID:
 1905961-011
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 5100
 300
 mg/Kg
 100
 5/24/2019 8:29:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC Client Sample ID: V4 @16" R

Project: Kersey State Battery
 Collection Date: 5/14/2019 9:55:00 AM

 Lab ID: 1905961-012
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst: JME
Diesel Range Organics (DRO)	70	9.8		mg/Kg	1	5/25/2019 12:33:01 AM
Motor Oil Range Organics (MRO)	120	49		mg/Kg	1	5/25/2019 12:33:01 AM
Surr: DNOP	143	70-130	S	%Rec	1	5/25/2019 12:33:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/21/2019 10:09:42 PM
Surr: BFB	90.6	73.8-119		%Rec	1	5/21/2019 10:09:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/21/2019 10:09:42 PM
Toluene	ND	0.050		mg/Kg	1	5/21/2019 10:09:42 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/21/2019 10:09:42 PM
Xylenes, Total	ND	0.099		mg/Kg	1	5/21/2019 10:09:42 PM
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	1	5/21/2019 10:09:42 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	6300	300		mg/Kg	100	5/24/2019 8:42:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC

Client Sample ID: NH @ Surf

Project: Kersey State Battery
 Collection Date: 5/14/2019 10:00:00 AM

 Lab ID: 1905961-013
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/22/2019 2:04:00 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/22/2019 2:04:00 PM
Surr: DNOP	106	70-130	%Rec	1	5/22/2019 2:04:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/21/2019 10:32:16 PM
Surr: BFB	90.3	73.8-119	%Rec	1	5/21/2019 10:32:16 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/21/2019 10:32:16 PM
Toluene	ND	0.050	mg/Kg	1	5/21/2019 10:32:16 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/21/2019 10:32:16 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/21/2019 10:32:16 PM
Surr: 4-Bromofluorobenzene	97.7	80-120	%Rec	1	5/21/2019 10:32:16 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	59	mg/Kg	20	5/23/2019 12:18:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Lab Order 1905961

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Caprock Services, LLC Client Sample ID: NH @ 6"

 Project:
 Kersey State Battery
 Collection Date: 5/14/2019 10:05:00 AM

 Lab ID:
 1905961-014
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: TOM				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/23/2019 8:52:10 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/23/2019 8:52:10 PM
Surr: DNOP	86.7	70-130	%Rec	1	5/23/2019 8:52:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/21/2019 10:54:49 PM
Surr: BFB	89.4	73.8-119	%Rec	1	5/21/2019 10:54:49 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/21/2019 10:54:49 PM
Toluene	ND	0.049	mg/Kg	1	5/21/2019 10:54:49 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/21/2019 10:54:49 PM
Xylenes, Total	ND	0.099	mg/Kg	1	5/21/2019 10:54:49 PM
Surr: 4-Bromofluorobenzene	96.3	80-120	%Rec	1	5/21/2019 10:54:49 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	5/23/2019 12:30:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC

Client Sample ID: EH 1 @ Surf

 Project:
 Kersey State Battery
 Collection Date: 5/14/2019 10:10:00 AM

 Lab ID:
 1905961-015
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/22/2019 2:48:08 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/22/2019 2:48:08 PM
Surr: DNOP	90.8	70-130	%Rec	1	5/22/2019 2:48:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/22/2019 12:02:34 AM
Surr: BFB	92.0	73.8-119	%Rec	1	5/22/2019 12:02:34 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/22/2019 12:02:34 AM
Toluene	ND	0.049	mg/Kg	1	5/22/2019 12:02:34 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/22/2019 12:02:34 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/22/2019 12:02:34 AM
Surr: 4-Bromofluorobenzene	99.5	80-120	%Rec	1	5/22/2019 12:02:34 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	5/23/2019 12:42:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Caprock Services, LLC Client Sample ID: EH 1 @ 6"

Project: Kersey State Battery
 Collection Date: 5/14/2019 10:15:00 AM

 Lab ID: 1905961-016
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/22/2019 3:10:15 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/22/2019 3:10:15 PM
Surr: DNOP	100	70-130	%Rec	1	5/22/2019 3:10:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/22/2019 12:25:16 AM
Surr: BFB	90.6	73.8-119	%Rec	1	5/22/2019 12:25:16 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/22/2019 12:25:16 AM
Toluene	ND	0.049	mg/Kg	1	5/22/2019 12:25:16 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/22/2019 12:25:16 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/22/2019 12:25:16 AM
Surr: 4-Bromofluorobenzene	97.8	80-120	%Rec	1	5/22/2019 12:25:16 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	62	60	mg/Kg	20	5/23/2019 12:55:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC Client Sample ID: EH 2 @ Surf

Project: Kersey State Battery
 Collection Date: 5/14/2019 10:20:00 AM

 Lab ID: 1905961-017
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/23/2019 9:14:17 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/23/2019 9:14:17 PM
Surr: DNOP	70.0	70-130	%Rec	1	5/23/2019 9:14:17 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/22/2019 12:48:01 AM
Surr: BFB	90.4	73.8-119	%Rec	1	5/22/2019 12:48:01 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/22/2019 12:48:01 AM
Toluene	ND	0.050	mg/Kg	1	5/22/2019 12:48:01 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/22/2019 12:48:01 AM
Xylenes, Total	ND	0.10	mg/Kg	1	5/22/2019 12:48:01 AM
Surr: 4-Bromofluorobenzene	98.0	80-120	%Rec	1	5/22/2019 12:48:01 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	200	60	mg/Kg	20	5/23/2019 1:07:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC

Client Sample ID: EH 2 @ 6"

 Project:
 Kersey State Battery
 Collection Date: 5/14/2019 10:25:00 AM

 Lab ID:
 1905961-018
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/23/2019 9:36:33 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/23/2019 9:36:33 PM
Surr: DNOP	101	70-130	%Rec	1	5/23/2019 9:36:33 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/22/2019 1:10:50 AM
Surr: BFB	87.9	73.8-119	%Rec	1	5/22/2019 1:10:50 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/22/2019 1:10:50 AM
Toluene	ND	0.050	mg/Kg	1	5/22/2019 1:10:50 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/22/2019 1:10:50 AM
Xylenes, Total	ND	0.10	mg/Kg	1	5/22/2019 1:10:50 AM
Surr: 4-Bromofluorobenzene	95.3	80-120	%Rec	1	5/22/2019 1:10:50 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	360	60	mg/Kg	20	5/23/2019 1:20:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
 S Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Caprock Services, LLC Client Sample ID: SH @ Surf

Project: Kersey State Battery
 Collection Date: 5/14/2019 10:30:00 AM

 Lab ID: 1905961-019
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/22/2019 4:16:32 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/22/2019 4:16:32 PM
Surr: DNOP	103	70-130	%Rec	1	5/22/2019 4:16:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/22/2019 1:33:40 AM
Surr: BFB	88.4	73.8-119	%Rec	1	5/22/2019 1:33:40 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/22/2019 1:33:40 AM
Toluene	ND	0.050	mg/Kg	1	5/22/2019 1:33:40 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/22/2019 1:33:40 AM
Xylenes, Total	ND	0.10	mg/Kg	1	5/22/2019 1:33:40 AM
Surr: 4-Bromofluorobenzene	95.3	80-120	%Rec	1	5/22/2019 1:33:40 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	5/23/2019 1:32:28 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Date Reported: 5/28/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Caprock Services, LLC Client Sample ID: SH @ 6"

Project: Kersey State Battery
 Collection Date: 5/14/2019 10:35:00 AM

 Lab ID: 1905961-020
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/23/2019 9:58:54 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/23/2019 9:58:54 PM
Surr: DNOP	77.6	70-130	%Rec	1	5/23/2019 9:58:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/22/2019 1:56:28 AM
Surr: BFB	90.1	73.8-119	%Rec	1	5/22/2019 1:56:28 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/22/2019 1:56:28 AM
Toluene	ND	0.049	mg/Kg	1	5/22/2019 1:56:28 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/22/2019 1:56:28 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/22/2019 1:56:28 AM
Surr: 4-Bromofluorobenzene	98.0	80-120	%Rec	1	5/22/2019 1:56:28 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	5/23/2019 2:34:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Caprock Services, LLC Client Sample ID: WH 1 @ Surf

 Project:
 Kersey State Battery
 Collection Date: 5/14/2019 10:40:00 AM

 Lab ID:
 1905961-021
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/22/2019 5:00:41 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/22/2019 5:00:41 PM
Surr: DNOP	151	70-130	S	%Rec	1	5/22/2019 5:00:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/22/2019 2:19:16 AM
Surr: BFB	89.1	73.8-119		%Rec	1	5/22/2019 2:19:16 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/22/2019 2:19:16 AM
Toluene	ND	0.050		mg/Kg	1	5/22/2019 2:19:16 AM
Ethylbenzene	ND	0.050		mg/Kg	1	5/22/2019 2:19:16 AM
Xylenes, Total	ND	0.10		mg/Kg	1	5/22/2019 2:19:16 AM
Surr: 4-Bromofluorobenzene	93.3	80-120		%Rec	1	5/22/2019 2:19:16 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	2000	60		mg/Kg	20	5/23/2019 2:46:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Caprock Services, LLC Client Sample ID: WH 1 @ 6"

Project: Kersey State Battery
 Collection Date: 5/14/2019 10:45:00 AM

 Lab ID: 1905961-022
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/22/2019 5:23:02 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/22/2019 5:23:02 PM
Surr: DNOP	95.9	70-130	%Rec	1	5/22/2019 5:23:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/22/2019 2:42:05 AM
Surr: BFB	87.3	73.8-119	%Rec	1	5/22/2019 2:42:05 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/22/2019 2:42:05 AM
Toluene	ND	0.050	mg/Kg	1	5/22/2019 2:42:05 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/22/2019 2:42:05 AM
Xylenes, Total	ND	0.099	mg/Kg	1	5/22/2019 2:42:05 AM
Surr: 4-Bromofluorobenzene	92.9	80-120	%Rec	1	5/22/2019 2:42:05 AM
EPA METHOD 300.0: ANIONS					Analyst: smb
Chloride	550	60	mg/Kg	20	5/23/2019 3:48:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Caprock Services, LLC Client Sample ID: WH 2 @ Surf

Project: Kersey State Battery
 Collection Date: 5/14/2019 10:50:00 AM

 Lab ID: 1905961-023
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				Analyst: JME
Diesel Range Organics (DRO)	26	9.9	mg/Kg	1	5/24/2019 7:38:39 PM
Motor Oil Range Organics (MRO)	98	50	mg/Kg	1	5/24/2019 7:38:39 PM
Surr: DNOP	119	70-130	%Rec	1	5/24/2019 7:38:39 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/22/2019 3:04:51 AM
Surr: BFB	87.1	73.8-119	%Rec	1	5/22/2019 3:04:51 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/22/2019 3:04:51 AM
Toluene	ND	0.050	mg/Kg	1	5/22/2019 3:04:51 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/22/2019 3:04:51 AM
Xylenes, Total	ND	0.099	mg/Kg	1	5/22/2019 3:04:51 AM
Surr: 4-Bromofluorobenzene	92.5	80-120	%Rec	1	5/22/2019 3:04:51 AM
EPA METHOD 300.0: ANIONS					Analyst: smb
Chloride	350	61	mg/Kg	20	5/23/2019 11:40:19 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 1905961

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/28/2019

CLIENT: Caprock Services, LLC Client Sample ID: WH 2 @ 6"

Project: Kersey State Battery
 Collection Date: 5/14/2019 10:55:00 AM

 Lab ID: 1905961-024
 Matrix: SOIL
 Received Date: 5/18/2019 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: JME
Diesel Range Organics (DRO)	12	9.7	mg/Kg	1	5/24/2019 9:16:54 PM
Motor Oil Range Organics (MRO)	76	49	mg/Kg	1	5/24/2019 9:16:54 PM
Surr: DNOP	122	70-130	%Rec	1	5/24/2019 9:16:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/22/2019 3:27:37 AM
Surr: BFB	88.9	73.8-119	%Rec	1	5/22/2019 3:27:37 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/22/2019 3:27:37 AM
Toluene	ND	0.049	mg/Kg	1	5/22/2019 3:27:37 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/22/2019 3:27:37 AM
Xylenes, Total	ND	0.099	mg/Kg	1	5/22/2019 3:27:37 AM
Surr: 4-Bromofluorobenzene	95.6	80-120	%Rec	1	5/22/2019 3:27:37 AM
EPA METHOD 300.0: ANIONS					Analyst: smb
Chloride	340	60	mg/Kg	20	5/23/2019 11:52:44 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

Caprock Services, LLC

WO#: **1905961**

28-May-19

1	y State Battery			
Sample ID: MB-45118	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 45118	RunNo: 60098		
Prep Date: 5/22/2019	Analysis Date: 5/22/2019	SeqNo: 2029813	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-45118	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 45118	RunNo: 60098		
Prep Date: 5/22/2019	Analysis Date: 5/22/2019	SeqNo: 2029814	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	15 1.5 15.00	0 98.1 90	110	
Sample ID: MB-45141	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 45141	RunNo: 60132		
Prep Date: 5/23/2019	Analysis Date: 5/23/2019	SeqNo: 2031535	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-45141	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 45141	RunNo: 60132		
Prep Date: 5/23/2019	Analysis Date: 5/23/2019	SeqNo: 2031536	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	14 1.5 15.00	0 94.3 90	110	
Sample ID: MB-45137	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 45137	RunNo: 60144		
Prep Date: 5/22/2019	Analysis Date: 5/23/2019	SeqNo: 2031633	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-45137	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 45137	RunNo: 60144		
Prep Date: 5/22/2019	Analysis Date: 5/23/2019	SeqNo: 2031634	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	15 1.5 15.00	0 97.8 90	110	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

Caprock Services, LLC

WO#: **1905961**

28-May-19

Project: Kersey S	tate Battery	1								
Sample ID: 1905961-001AMS	SampT	уре: М\$	6	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: V1 @ Surf	Batch	ID: 45	080	F	RunNo: 60056					
Prep Date: 5/21/2019	Analysis D	ate: 5/	22/2019	5	SeqNo: 2	028020	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	75	9.8	49.16	5.576	141	53.5	126			S
Surr: DNOP	7.0		4.916		142	70	130			S
Sample ID: 1905961-001AMS	D SampT	уре: М\$	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: V1 @ Surf	Batch	ID: 45	080	F	RunNo: 6	0056				
Prep Date: 5/21/2019	Analysis D	ate: 5/	22/2019	5	SeqNo: 2	028021	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	80	9.8	48.83	5.576	152	53.5	126	6.43	21.7	S
Surr: DNOP	8.4		4.883		172	70	130	0	0	S
Sample ID: LCS-45080	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 45	080	F	RunNo: 6	0056				
Prep Date: 5/21/2019	Analysis D	ate: 5/	22/2019	S	SeqNo: 2	028022	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	67	10	50.00	0	134	63.9	124			S
Surr: DNOP	6.0		5.000		120	70	130			
Sample ID: MB-45080	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 45	080	F	RunNo: 6	0056				
Prep Date: 5/21/2019	Analysis D	ate: 5/	22/2019	5	SeqNo: 2	028023	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	70	130			
Sample ID: MB-45162	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 45	162	F	RunNo: 6	0130				
Prep Date: 5/23/2019	Analysis D	ate: 5/	24/2019	5	SeqNo: 2	031736	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10	<u> </u>							
Motor Oil Range Organics (MRO)	ND	50								

Qualifiers:

Surr: DNOP

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

10

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

101

70

130

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

10.00

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Hall Environmental Analysis Laboratory, Inc.

4.6

WO#: **1905961**

28-May-19

Client: Caprock Services, LLC
Project: Kersey State Battery

Sample ID: LCS-45162 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 60130 Client ID: LCSS Batch ID: 45162 Prep Date: 5/23/2019 Analysis Date: 5/24/2019 SeqNo: 2031737 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 10 0 47 50.00 93.0 63.9 124 Surr: DNOP 4.6 5.000 91.8 130

Sample ID: 1905961-024AMS TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MS Client ID: WH 2 @ 6" Batch ID: 45162 RunNo: 60130 Prep Date: 5/23/2019 Analysis Date: 5/24/2019 SeqNo: 2032822 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 12.21 53 9.9 49.65 82.9 53.5 126 Surr: DNOP 4.6 4.965 92.5 70 130

Sample ID: 1905961-024AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WH 2 @ 6" Batch ID: 45162 RunNo: 60130 Prep Date: 5/23/2019 Analysis Date: 5/24/2019 SeqNo: 2032823 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Analyte Diesel Range Organics (DRO) 53 9.8 49.21 12.21 83.0 53.5 126 0.548 21.7

93.2

70

130

0

0

4.921

Qualifiers:

Surr: DNOP

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1905961**

28-May-19

Client: Caprock Services, LLC
Project: Kersey State Battery

Sample ID: MB-45028 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **45028** RunNo: **60047**

Prep Date: 5/20/2019 Analysis Date: 5/21/2019 SeqNo: 2027163 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

 Surr: BFB
 860
 1000
 85.8
 73.8
 119

Sample ID: LCS-45028 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 45028 RunNo: 60047

Prep Date: 5/20/2019 Analysis Date: 5/21/2019 SeqNo: 2027164 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 83.1 80.1 123 Surr: BFB 1000 99.6 1000 73.8 119

Sample ID: 1905961-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: V1 @ Surf Batch ID: 45028 RunNo: 60047

Prep Date: 5/20/2019 Analysis Date: 5/21/2019 SeqNo: 2027166 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.61 0 98.1 69.1 142 Surr: BFB 1000 984.3 103 73.8 119

Sample ID: 1905961-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: V1 @ Surf Batch ID: 45028 RunNo: 60047

Prep Date: 5/20/2019 Analysis Date: 5/21/2019 SeqNo: 2027167 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.51 98.2 69.1 142 0.230 20 Surr: BFB 1000 980.4 102 73.8 119 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1905961**

28-May-19

Client:	Caprock Services, LLC
Project:	Kersey State Battery

Sample ID: MB-45028	SampT	уре: МЕ	BLK	TestCode: EPA Method			8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 45 0	028	RunNo: 60047						
Prep Date: 5/20/2019	Analysis D	oate: 5/ 2	21/2019	SeqNo: 2027190			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	80	120			

Sample ID: LCS-45028	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	n ID: 45 0	028	F	RunNo: 6	0047				
Prep Date: 5/20/2019	Analysis D	oate: 5/	21/2019	5	SeqNo: 2	027191	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: 1905961-003AMS	Samp	Гуре: М	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: V1 @ 18" R	Batc	h ID: 45 0	028	F	RunNo: 6	0047				
Prep Date: 5/20/2019	Analysis [Date: 5/	21/2019	9	SeqNo: 2	027194	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9699	0	113	63.9	127			
Toluene	1.1	0.048	0.9699	0.003957	117	69.9	131			
Ethylbenzene	1.1	0.048	0.9699	0.006353	116	71	132			
Xylenes, Total	3.3	0.097	2.910	0	115	71.8	131			
Surr: 4-Bromofluorobenzene	1.1		0.9699		109	80	120			

Sample ID: 1905961-003AMSE	SampT	ype: MS	SD.	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: V1 @ 18" R	Batch	1D: 45 0	028	F	RunNo: 60	0047				
Prep Date: 5/20/2019	Analysis D	ate: 5/ 2	21/2019	S	SeqNo: 20	027195	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9718	0	88.4	63.9	127	24.3	20	R
Toluene	1.1	0.049	0.9718	0.003957	111	69.9	131	4.53	20	
Ethylbenzene	1.1	0.049	0.9718	0.006353	110	71	132	5.24	20	
Xylenes, Total	3.2	0.097	2.915	0	108	71.8	131	5.65	20	
Surr: 4-Bromofluorobenzene	1.0		0.9718		108	80	120	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CAPROCK SERVICES, L Work Order Number: 1905961 RcptNo: 1 una. Received By: Erin Melendrez 5/18/2019 10:10:00 AM una, Erin Melendrez Completed By: 5/18/2019 2:00:08 PM 0/20/19 Reviewed By: DAD 5/20/19 Chain of Custody 1. Is Chain of Custody complete? Yes V No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 Yes 🗸 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 NA T 5. Sample(s) in proper container(s)? Yes V No 🗌 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗌 NA 🗌 8. Was preservative added to bottles? Yes No V 9. VOA vials have zero headspace? No 🗌 No VOA Vials Yes Yes 🗌 10. Were any sample containers received broken? No V # of preserved bottles checked 11. Does paperwork match bottle labels? Yes V No 🗌 for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 13 Is it clear what analyses were requested? V No 🗌 Yes 14. Were all holding times able to be met? Checked by: DAD 5/20/19 Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date Signed By 1.6 Good Yes

HALL ENVIRONMENTAL	www.hallenvironmental.com	10	Analysis Request		9, ₄ , 9	1 827(10 ₂ ,	0 0 o	Met Met (AC	EDB (Me PAHs by RCRA 8 8260 (VC 8270 (Se Total Col	1×	×	×	*	×	×	×	×	×	×	×	X	results to:	r Date Tille joel @ Lowingeninamental. Com 5/18/9
	4 4 H H H	Tel. 50		(0)	N / O	AQ / C	SRC)D9	METER 1 108:H9T 8081 Pes	×		X	×		×	X		×	×		メメ	Remarks:	Joel @ C
Turn-Around Time: Solut	3	Project #:		MProject Manager:	Joel Lowry	Jordyne	# of Coolers:	Cooler Temp(including CF): \ (\(\hat{\hat{\hat{\hat{\hat{\hat{\hat{\hat	e e	402 dos Ice -001	200-111	-003	h99-1		-000	-007	-008	522-	010-	110-		Date Time	
Chain-of-Custody Record	Mailing Address: P.D. Box 457	Lovington Nim 882260	Phone #: (STS) 2118	email or Fax#: Caprock Services Se (agnor) Com Project Manag	QA/QC Package:	in: Az Compliance	I NELAC CITIES NACCO CO		Date Time Matrix Sample Name	54-19 0900 Soil VI@ Swot.	01/	7,8101/ a160	1 1015 DRO SMF	1 10920 1000 19"	1093 1 V2@ 20" R	10930 13 @ Surf.	1 (035) 1300 19"		1 1045 146 SURF	1,6101111111111111111111111111111111111		Date: Time: Relinquished by:	Date: Time: Relinquished by:

HALL ENVIRONMENTAL	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	*O9	PCB's PO4, S	8082 4.1) 5227(NO ₂ ,	3,000 o o o o o o o o o o o o o o o o o o	D(Caperal Discontinuous Discon	BTEX) N TPH:8015 8081 Pes PAHs by RCRA 8 N RCRA 8 N RCRA 8 N RCRA 8 N RCRA 8 N RCRA 8 N RCRA 8 N	×												Remarks: email regulds to:	joel @ Loungenvinonmental.com	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time: School Standard Rush	6	त्र	Project #:		Project Manager:	Joel Lowny	Jordyne	Un Ice: Tres I No	Cooler Templing CE: 1 4 603.	ive	150	/	510-	910-	L10-1	1 -018	Pi0-1	1 -020	120-1	720-	-023	n20-1	Received by: Via: Date Time	Received by Via:COULT Cy Date Time 10	ontracted to other accredited laboratories. This serves as notice of this
Chain-of-Custody Record		LSH X0	CaD	Phone #: (575) 104- 2718	email or Fax#: CaprockServi essle @gmail . Con Project Manager:	QA/QC Package: Standard □ Level 4 (Full Validation)	n: Az Compliance	is co	(20)	Date Time Matrix Sample Name	1900 Soil NH @ Sunf.	1005 NHO 6"	1010 EH10Smf.	1 1015 EHI @ 6"	1000 / EH 20 Swt.	100% CHJO 6"	1030 SHO Surf	1035 SH@ 6"	11040 WHI @ SWIF	" a @ I HW WHI	1050 WH 3(0 smf.	1 1055 1 WH 3 @ 6"	}	Date: Time: Relinquished by:	If necessary, samples submitted to Hall Environmental may be suboc



March 24, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: KERSEY STATE HISTORICAL

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.

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

Reported: 03/24/2020 Sampling Type: Soil

Project Name: KERSEY STATE HISTORICAL Sampling Condition: Cool & Intact
Project Number: 11986 Sample Received By: Kelly Jacobson

Project Location: RURAL EDDY - GRIZZLY ENERGY

Sample ID: V1 @ 3' (H000887-01)

Chloride, SM4500Cl-B Analyzed By: GM mg/kg Analyte Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Result 576 432 400 Chloride 16.0 03/24/2020 ND 108 0.00

Sample ID: V1 @ 4' (H000887-02)

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	03/24/2020	ND	432	108	400	0.00	

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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(5/5) 55	(2/2) 232-2320 1 77 (2/3) 200 2710	10	St. C. Marchaelle Communication of the Communicatio	1016101010101010101			- 1	TOTIFOT
Company Name: Etech E	Etech Environmental & Safety Solutions, Inc.	ions, Inc.	BILL TO	10000 10000			ANALYSIS KE	KEQUEUT
	wry		P.O. #:					
Address: P.O. Box 301			Company: Vanguar	Vanguard/Grizzly				
City: Lovington	State: NM	Zip: 88260	Attn: Carmen Pitt	Pitt				
Phone #: (575) 396-2378	Fax #:	(575) 396-1429	Address:					
Project #: 11986	Project Owner:	r: Grizzly Energy	City:		1)	В)		
me:	Kersey State Historical		State: Zip:	ide	15N	021		
Project Location: Rural Eddy	ddy		Phone #:	nlori	(80	X (80		
Sampler Name: David Robinson	nson		Fax #:	Ch	РН	(E)		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING		TF	ВТ		
Lab I.D. S	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TIME				
1 V1 @ 3'		-	X 3/20/20	×				
7 V1 @ 4'		_	x 3/20/20	×				
PLEASE NOTE: Liability and Damages. Ca analyses. All claims including those for negli- consistent in no averet shall Cardinal be liable	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after competition of the applications. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal to the including consistency.	rany claim arising whether based in contre e deemed waived unless made in writing ng without limitation, business interruption	ract or tort, shall be limited to the amount paid by the client for the and received by Zardinal within 30 days after completion of the a ns, loss of use or loss of profits incurred by client, its subsidiaries	paid by the client for the after completion of the appli yy client, its subsidiaries,	cable			
Relinquished By: Relinquished By: Relinquished By:	gould for reliated to the performance of services hereunder by C. Date 3/19/2. Time: Time:	horounder by Cardinal, regardless of whether such class Received By:	aim is bayed upon any of the above stated	768	□ Yes	es □ No	was or otherwise. Phone Result:	
Delivered By: (Circle One)	-1.9°	Sample Condition Cool Intact Nyes Nes	dition CHECKED BY:					

Revision 1.0 FORM-006



February 28, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: KERSEY STATE HISTORICAL

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.

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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: 02/28/2020 Sampling Type: Soil

Project Name: KERSEY STATE HISTORICAL Sampling Condition: Cool & Intact
Project Number: 11986 Sample Received By: Tamara Oldaker

Project Location: RURAL EDDY - GRIZZLY ENERGY

Sample ID: V1 @ 2' - R (H000614-01)

Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	02/28/2020	ND	400	100	400	3.92	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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*** 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

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

Company Name:	Etech Environme	Etech Environmental & Safety Solutions, Inc.	ns, I	DC.			- 1				00	BILL TO				1		2	₽	ANALYSIS	S	刀	ö		REQUEST	1					_
Project Manager:	Joel Lowry								P.O.	0	*										;		_//	- 1	-1		1				
Address: P.O. F	P.O. Box 301					-			ဂ္ဂ	Ě	Company:	Vanguard/Grizzly	d/Grizzly												_						_
City: Lovington		State: NM	Zip	8	Zip: 88260				At	Attn:		Carmen Pitt	Ħ																		
Phone #: (575)	(575) 396-2378	Fax #: (575) 396-1429	96-1	429					Ac	dre	Address:																				_
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Project Location:	Rural Eddy								Ph	One	Phone #:			orid	301	802									_						
Sampler Name: N	Matthew Grieco & Miguel Ramirez	guel Ramirez							Fa	Fax #:			***************************************	Chle	H (8	EX (
FOR LAB USE ONLY			P.			MA.	MATRIX			P	PRESERV.	SAMPLING	NG		TP	ВТ									_						
Lab I.D.	Sample I.D.	i.b.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME																		
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Appendix D Photographic Log

Photographic Log

