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Incident ID NAPP2227232943 District RP Facility ID Application ID

# Site Assessment/Characterization

This information must be provided to the appropriate district office no taler than 90 days after the release discovery date.									
What is the shallowest depth to groundwater beneath the area affected by the release?									
Did this release impact groundwater or surface water?	☐ Yes 🗹 No								
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No								
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🗹 No								
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No								
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🗹 No								
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗸 No								
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗹 No								
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🗹 No								
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🔽 No								
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🗹 No								
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗹 No								
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes 🗸 No								
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.									
Characterization Deport Charlists Each of the following items must be included in the venert									

<ul> <li>✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>✓ Field data</li> <li>✓ Data table of soil contaminant concentration data</li> <li>✓ Depth to water determination</li> <li>✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>✓ Boring or excavation logs</li> <li>✓ Photographs including date and GIS information</li> <li>✓ Topographic/Aerial maps</li> <li>✓ Laboratory data including chain of custody</li> </ul>	Characterization Report Checklist: Each of the following items must be included in the report.	_
	<ul> <li>✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>✓ Field data</li> <li>✓ Data table of soil contaminant concentration data</li> <li>✓ Depth to water determination</li> <li>✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>✓ Boring or excavation logs</li> <li>✓ Photographs including date and GIS information</li> <li>✓ Topographic/Aerial maps</li> </ul>	

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.

Received by OCD: 3/29/2023 7:55:54 PM Form C-141 State of New Mexico

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Oil Conservation Division

Page 4

Incident ID nAPP2227232943 District RP Facility ID Application ID

failed to adequately investigate and remediate contomination the	otherwise and perform corrective actions for releases which may endanger
Printed Name: Risa Czarnikow  Signature: Wa Sunkers  email: rczarnikow@helmsoil.com	Title: Production Tech  Date: 3-29-23  Telephone: (432) 688-3727
OCD Only	
Received by:Jocelyn Harimon	Date: 03/30/2023

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State of New Mexico Oil Conservation Division

Incident ID	nAPP2227232943
District RP	
Facility ID	
Application ID	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: East	ch of the following items must be included in the closure report.
A scaled site and sampling diagram as des	
Photographs of the remediated site prior to must be notified 2 days prior to liner inspection	to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office on)
☐ Laboratory analyses of final sampling (No.	te: annronrioto ODC Division
Description Commission of the	te: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
I hereby certify that the information gives at	
may endanger public health or the environment. should their operations have failed to adequately human health or the environment. In addition, (compliance with any other federal, state, or loca restore, reclaim, and re-vegetate the impacted out.)	e is true and complete to the best of my knowledge and understand that pursuant to OCD rules ort and/or file certain release notifications and perform corrective actions for releases which The acceptance of a C-141 report by the OCD does not relieve the operator of liability investigate and remediate contamination that pose a threat to groundwater, surface water, OCD acceptance of a C-141 report does not relieve the operator of responsibility for laws and/or regulations. The responsible party acknowledges they must substantially race area to the conditions that existed prior to the release or their final land use in otification to the OCD when reclamation and re-vegetation are complete.
Printed Name: Risa Czarnikow	- 100 1000 1000
	Title: Production Tech
Signature: Ma (zakow)	Date: 3-29-23
email: rczarnikow@helmsoil.com	Telephone: (432) 688-3727
OCD Only	
Received by: Jocelyn Harimon	Date:03/30/2023
Closure approval by the OCD does not relieve the remediate contamination that poses a threat to grouparty of compliance with any other federal, state,	responsible party of liability should their operations have failed to adequately investigate and undwater, surface water, human health, or the environment nor does not relieve the responsible or local laws and/or regulations.
Closure Approved by: Nelson Velez  Printed Name: Nelson Velez	Date: 09/29/2023
Printed Name: Nelson Velez	Title: Environmental Specialist - Adv

OCD has accepted the groundwater determination albeit it was outside the preferential 1/2 mile radius determination. Closure report approved; release resolved.

# **Amended Remediation Summary and Soil Closure Request**

# H.L. Brown Operating, LLC Fed Com 27 004

Roosevelt County, New Mexico
Unit Letter A, Section 5, Township 8 South, Range 37 East
Latitude 33.679014 North, Longitude 103.144231 West
NMOCD Reference No. nAPP2227232943

Prepared By:

Etech Environmental & Safety Solutions, Inc.

2617 W. Marland Hobbs, New Mexico 88240

Zach Conder

Ben J .Arguijo



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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#### **APPENDICES**

Appendix A - Amended Depth to Groundwater Information

Appendix B - Field Data and Soil Profile Logs

Appendix C - Laboratory Analytical Reports

Appendix D - Photographic Log

### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of H.L. Brown Operating, LLC, has prepared this Remediation Summary and Soil Closure Request for the release site known as the Fed Com 27 004 (henceforth, "Site"). Details of the release are summarized below:

atitude:	33.6	79014	Longitude:	-103.144231				
		Provide	ed GPS are in WGS84 format					
Site Name:		Com 27 004	Site Type:	0				
Date Release Disco	overed:	9/7/2022	API # (if applica	ble): 30-041-20917				
Unit Letter	Section	Township	Range	County				
K	27	7S	37E	Roosevelt				
Surface Owner:	State		X Private (Nam					
X Crude Oil	Volum	ne Released (bbls)	5 bbls	Volume Recovered (bbls) 0 bbls				
Produced Wa	ter Volum	e Released (bbls)		Volume Recovered (bbls)				
Is the concentration of total dissolved solids (TDS) Yes No N/A in the produced water > 10,000 mg/L?								
Condensate	Volum	e Released (bbls)		Volume Recovered (bbls)				
Natural Gas	Volum	e Released (Mcf)		Volume Recovered (Mcf)				
Other (descri	be) Volume	e/Weight Released		Volume/Weight Recovered				
Cause of Release: Unknown. Histor		und during site inspec	ction.					
		Ir	nitial Response					
X The source of	the release ha	s been stopped.						
X The impacted	area has been	secured to protect hum	nan health and the envi	ronment.				
<u> </u>			C1 1'1 1	1 4 1 4 4 4 1 1				
X Release mater	ials have been	contained via the use	of berms or dikes, abso	orbent pad, or other containment devices				

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

#### 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	181	Feet
Did the release impact groundwater or surface water?	Yes	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	Yes	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	Yes	X No

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

#### 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

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

<sup>\*</sup> The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas.

#### 4.0 REMEDIATION ACTIVITIES SUMMARY

On October 21, 2022, remediation activities commenced at the Site. In accordance with NMOCD regulations, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria.

Upon excavating impacted soil affected above the NMOCD Closure Criteria, Etech collected twenty-three (23) confirmation soil samples. The collected soil samples were submitted to a certified, commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in all of the submitted soil samples.

In addition, Etech collected eight (8) horizontal delineation soil samples representative of each cardinal direction in an effort to further characterize the horizontal extent of the release. The collected soil samples were submitted to a certified, commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation standard in all of the submitted soil samples.

A site and sample location map is provided as Figure 3A and Figure 3B. A soil chemistry table is provided as Table 1. Field data and soil profile logs, if applicable, are provided as Appendix B. Laboratory analytical reports are provided as Appendix C.

The final dimensions of the excavated areas ranged from ten (10) to fifty (50) feet in length, and ranged from ten (10) to thirty (30) feet in width and six (6) inches to four (4) feet in depth. During the course of remediation activities, approximately two hundred and twenty (220) cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

### 5.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable.

#### 6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulations. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

Based on laboratory analytical results and field activities conducted to date, Etech recommends H.L. Brown Operating, LLC, provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the Fed Com 27 004 Site.

#### 7.0 LIMITATIONS

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

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

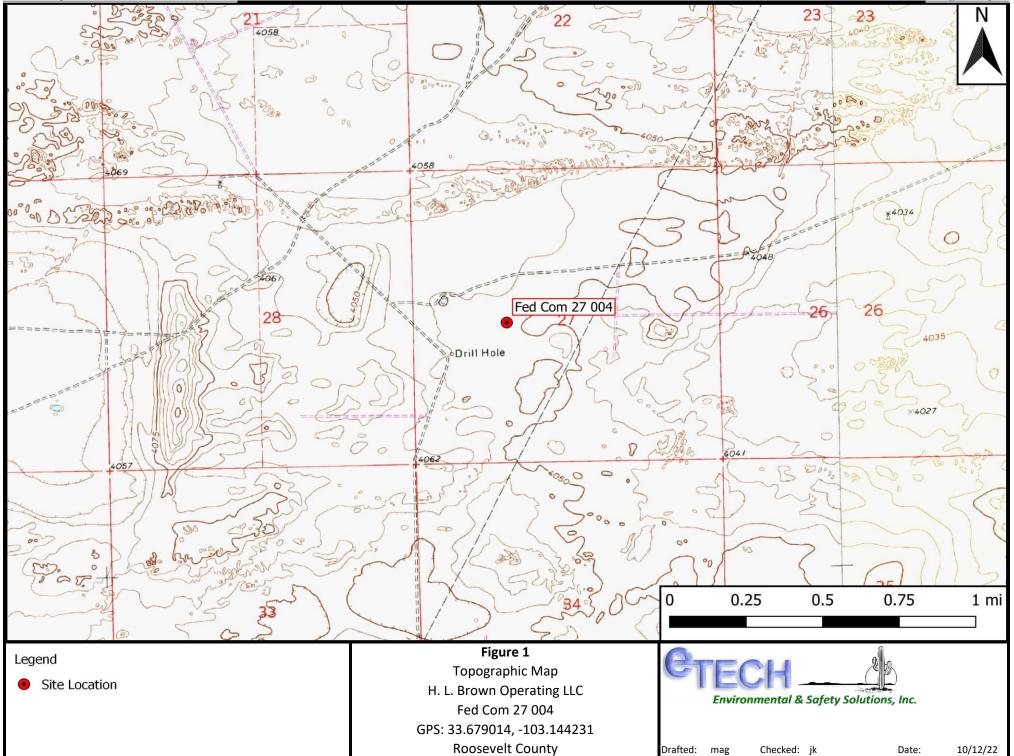
# 8.0 DISTRIBUTION

H.L. Brown Operating, LLC 300 West Louisiana Midland, TX 79702-2237

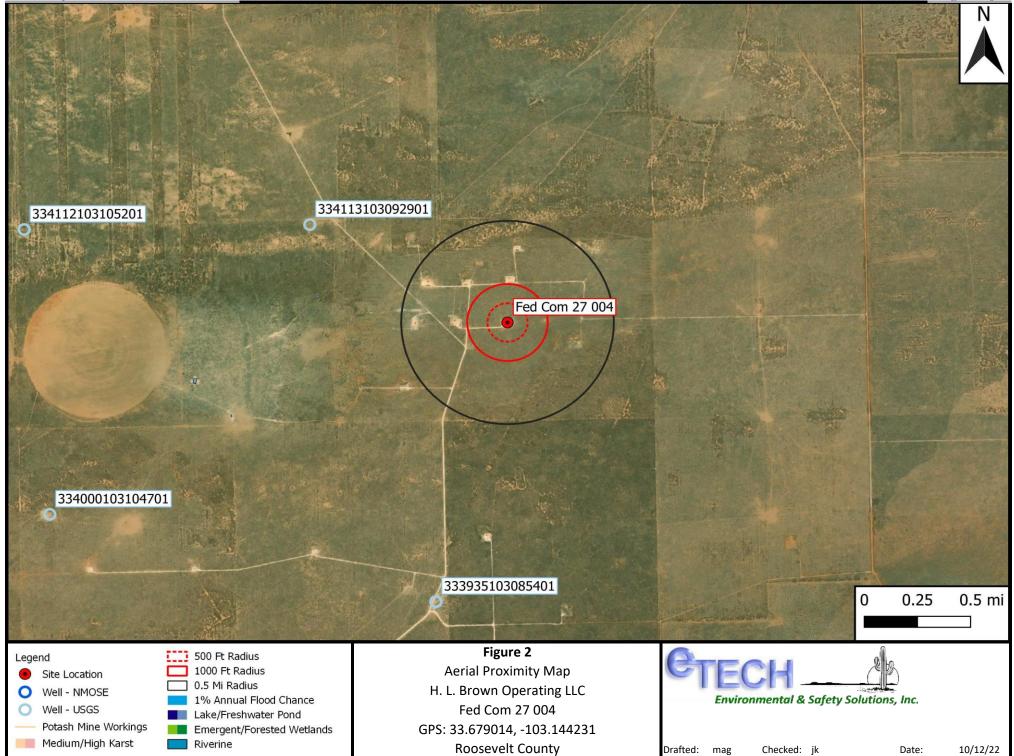
New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

(Electronic Submission)

# Figure 1 Topographic Map



# Figure 2 Aerial Proximity Map



# Table 1 Concentrations of BTEX, TPH, and Chloride in Soil

# Table 1 Concentrations of BTEX, TPH, and Chloride in Soil H.L. Brown Operating, LLC Fed Com 27 004 NMOCD Ref. #: nAPP2227232943

	NMOCD Ref. #: nAPP2227232943  NMOCD Closure Criteria 10 50 1.000 - 2.500 20.000												
				10	50	-	-	1,000	-	2,500	20,000		
NMOCE	Reclamation	Standard		10	50	-	-	-	-	100	600 4500 CI		
				SW 840	5 8021B					46 8015M Ext.			
Sample ID	Date	Depth	Soil Status	Benzene	BTEX	GRO	DRO	GRO + DRO	ORO	ТРН	Chloride		
		(Feet)	Status	(mg/kg)	(mg/kg)	C <sub>6</sub> -C <sub>10</sub> (mg/kg)	C <sub>10</sub> -C <sub>28</sub> (mg/kg)	C <sub>6</sub> -C <sub>28</sub>	C <sub>28</sub> -C <sub>36</sub> (mg/kg)	C <sub>6</sub> -C <sub>36</sub> (mg/kg)	(mg/kg)		
ETT 1 0 11	10/15/2022		T G'	.0.050	.0.200			(mg/kg)			22.4		
EH 1 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224		
EH 2 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256		
NH 1 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0		
NH 4 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224		
SH 1 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0		
SH 2 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0		
WH 3 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0		
WH 5 @ 1'	12/15/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0		
FL 1 @ 1'	10/21/2022 11/14/2022	1	Excavated	<0.025	0.213	<50.0	4,180	4,180	1,330	5,510	2,080		
FL 1 @ 2'		2	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1 (40		
FL 2 @ 1'	10/21/2022	1	Excavated	<0.025	0.189	<50.0	1,770	1,770	684	2,450	1,640		
FL 2 @ 2'	11/14/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	- 002		
FL 3 @ 3'	10/25/2022	3	In-Situ	<0.025	0.415	17.2	291	308	51.4	360	992		
FL 4 @ 3'	10/25/2022	3	In-Situ	<0.025	0.584	25.7	515	541	56.3	597	656		
FL 5 @ 3'	10/25/2022	3	In-Situ	<0.025	< 0.150	<10.0	247	247	11.7	259	752		
FL 6 @ 3'	10/25/2022 11/15/2022	3	Excavated	<0.025	5.66	228 <10.0	1,690	1,920	151	2,070	480		
FL 6 @ 4' FL 7 @ 6"		0.5	In-Situ	<0.050	<0.300		<10.0	<20.0 412	<10.0 28.2	<30.0			
EW 1	10/25/2022	0.5	In-Situ Excavated	<0.025	<0.150	<10.0 <50.0	412		28.2	440 1,780	2,920		
EW 1 B	10/21/2022 11/14/2022	0-			< 0.300	<10.0	1,560 <10.0	1,560	<10.0	-	2,800		
EW 1 B	10/25/2022	0-	In-Situ Excavated	<0.050	90.8	2,620	7,130	<20.0 <b>9,750</b>	551	<30.0 <b>10,300</b>	544		
EW 2 B	11/15/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-		
EW 2 B	10/25/2022	0-	Excavated	<0.036	1.35	62.8	1,440	1,500	72.0	1,570	640		
EW 3 B	11/15/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-		
NW 1	10/21/2022	0-	Excavated	< 0.025	< 0.150	<50.0	4,060	4,060	1,510	5,570	3,640		
NW 1 B	11/14/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	J,040 -		
NW 2	10/25/2022	0-	In-Situ	< 0.025	< 0.150	<10.0	<10.0	<20.0	<10.0	<30.0	320		
NW 3	10/25/2022	0-	Excavated		18.1	734	1,880	2,610	148	2,760	960		
NW 3 B	12/15/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0		
NW 4	10/25/2022	0-	Excavated	< 0.025	2.35	112	1,420	1,530	56.2	1,590	3,640		
NW 4 B	11/15/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-		
SW 1	10/21/2022	0-	Excavated	< 0.025	< 0.150	<50.0	1,330	1,330	304	1,630	1,440		
SW 1 B	11/14/2022	0-	Excavated	< 0.050	< 0.300	<10.0	2,340	2,340	1,210	3,550	-		
SW 1 C	12/1/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-		
SW 2	10/25/2022	0-	Excavated	0.356	30.4	994	3,550	4,540	379	4,920	400		
SW 2 B	11/15/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-		
SW 3	10/25/2022	0-	In-Situ	< 0.025	0.503	15.3	151	166	<10.0	166	608		
SW 4	10/25/2022	0-	Excavated	< 0.100	1.58	148	3,370	3,520	296	3,810	304		
SW 4 B	11/15/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-		
WW 1	10/21/2022	0-	In-Situ	< 0.025	< 0.150	<10.0	<10.0	<20.0	<10.0	<30.0	240		
WW 2	10/25/2022	0-	In-Situ	< 0.025	< 0.150	<10.0	<10.0	<20.0	<10.0	<30.0	192		
,, =	10, 23, 2022		III Ditu	-0.023	-0.150	10.0	-10.0	-20.0	10.0	.50.0	172		

 $\label{eq:Dash of Constituent} \textbf{Dash (-): Sample not analyzed for that constituent.}$ 

**Bold:** NMOCD Closure Criteria exceedance.

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil H.L. Brown Operating, LLC Fed Com 27 004 NMOCD Ref. #: nAPP2227232943											
NMO	NMOCD Closure Criteria 10 50 1,000 - 2,500							20,000			
NMOCD	Reclamation	Standard		10	50	-	-	-	-	100	600
				SW 840	SW 846 8021B SW 846 8015M Ext.					4500 Cl	
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
WW 3	10/25/2022	0-	In-Situ	< 0.025	0.290	<10.0	185	185	<10.0	185	1,840
WW 4	10/25/2022	0-	Excavated	1.72	119	3,960	9,770	13,700	875	14,600	896
WW 4 B	12/15/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 5	10/25/2022	0-	In-Situ	< 0.025	0.222	28.7	204	233	<10.0	233	1,180

# Figure 3A and Figure 3B Site and Sample Location Map



Fed Com 27 004 GPS: 33.679014, -103.144231

**Roosevelt County** 

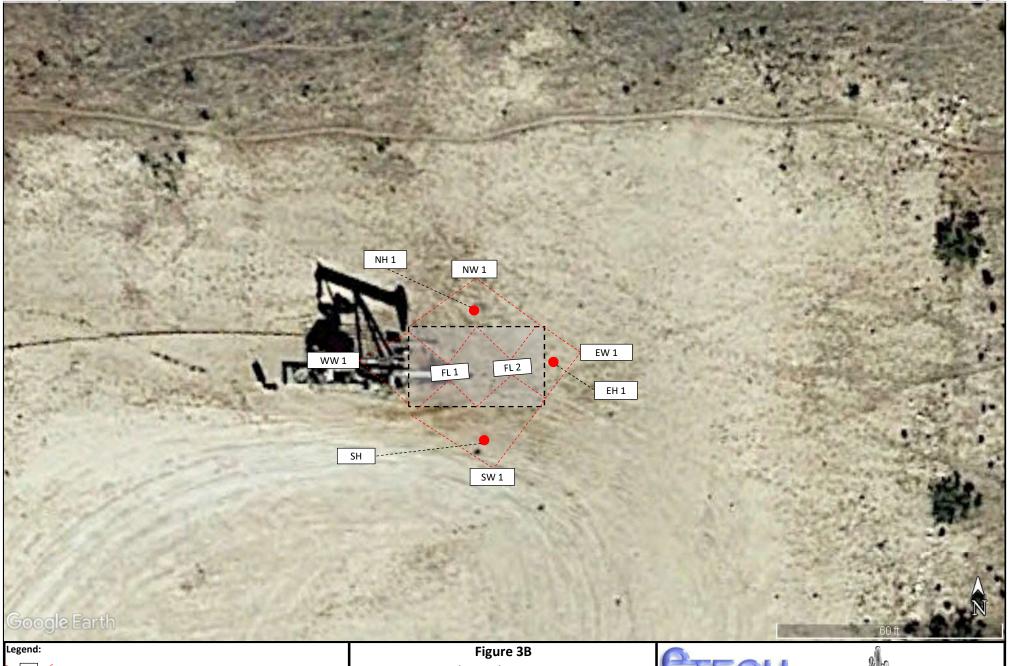


Drafted:

Checked: jwl

Date:

1/6/23



Confirmation Sample Location

Horizontal Delineation Sample Point
Excavated Area

Site and Sample Location Map H.L. Brown Operating, LLC Fed Com 27 004 GPS: 33.679014, -103.144231

Roosevelt County



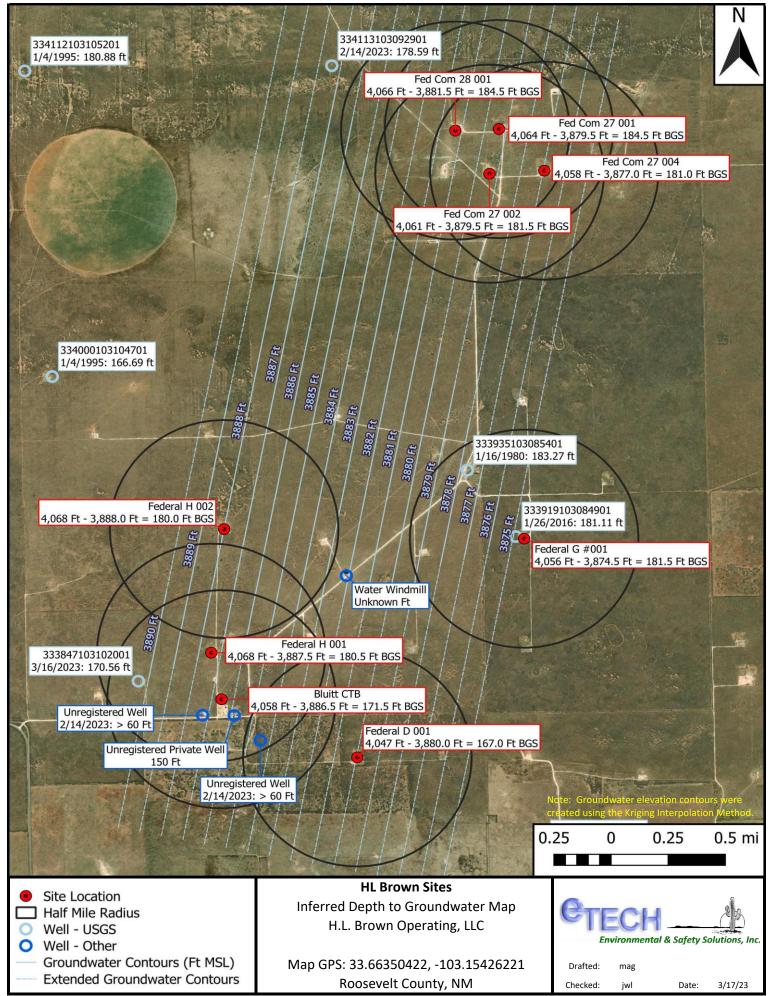
Drafted:

Checked: jwl

Date:

1/6/23

# Appendix A Depth to Groundwater Information





# **Ground Water Sampling Log**

Well ID: Unregistered Well
Date: 2/14/2023

	escription/Co					Personnel·				
Well De	escription/Loca	tion: Aba	and one	1 14/11	5F of	House Tota	al Deptha (ft b	mp): N/A	<u> </u>	
	Well: Monit									
Casing I	Material: PVC	Steel O	ther	Dia	meter: 2"	′ 4″ 6″ Oth	ner 10 Scre	en (ft bmp):	Stow Pipe	
	on of Seal: Go									
Gaugin										5 ft ass
		CO FI	A.D V	101 30	ereper	, teas o	+ equip	ment pa	mast	
Well P	urge Data			-		7				
	\	Volume I				Well Vo	lume ((a-b) x	c) =	gal	
Dia (in		3"	4"	5"	6"					
Gal/ft	0.163	0.367	0.653	1.020	1.469	Purging	Volume (3 x \	Well Vol) =	gal	
Well Pu	rging Method:	submers	sible peri	staltic ba	iler othe	er	_ Depth pun	np set (ft bmp	)	
Water	Quality Indica	ator Parar	meters							
	Cumulative	Water				Specific				
40 -	Gallons	Level		mp	рН	Cond.	TDS	DO	ORP	
Time	Purged	(ft bmp	) (°	C)	(SU)	(mS/cm)	(g/l)	(mg/l)	(mV)	
			4 1							
	1									
					736	·				
							0			
	=									
							-			
							100000000000000000000000000000000000000			
ecording l	nterval: Traditiona	l volume purg	ge - every ½ v	vell volume; I	_ow flow - ev	ery 3-5 min, drav	wdown should no	ot exceed 0.33ft d	luring purging.	
Total Ga	llons Purged_			,	\nnrovima	ate Discharge	Pata (anm):			
	_	-		,	тррголина	ite Discharge	nate (gpiii)			
Sample		مانيم بامما	م ا ما تمین میسی	u v ulaka lela	. Latter	valores				
	Collection Met									
Comme	ents	Projec	ct name io	r sample i	abeis (it ac	obr):	Dupli	cate Collected	1? Y N	
	• pH: ±0.1						Committee !	ing left !- '	13 V 11	
Criteria:	• SC: ±5%, for SC	≤ 100 μS/cm;	; ±3%, for SC	> 100 μS/cm			(circle yes or n	ing left in wel o)	I? Y N	
	<ul> <li>DO: ±10% or 0.3</li> <li>Temp: ± 0.2°C (</li> </ul>			er)			If so	, length (ft)?	-	



# **Ground Water Sampling Log**

Well ID: Clasesistered well Date: 2/14/2023

Project:	escription/Co	rowins				Personnel:				<del>-</del>
Well De	scription/Loca	tion: Ab	andone	ed w.	ell	Tota	al Deptha (ft b	mp): N/A		
Type of	Well: Moni	tor Reco	very Pot	able I	rrigation	Other Abay	eloned L	ivestacle	*	
Casing I Condition	Material: PVC on of Seal: Go	(Steel) O ood Poor	ther Needs R	epair (	Diameter: 2 Other	" 4" <b>6"</b> Oth	ner Scre	een (ft bmp): _ Well Locke	<del>Stove Pi</del> ed? Y N	96
Gaugin Static W Comme	g Data /ater Level <sup>b</sup> (ft nts:	bmp) > 6	Did	Time	o deepe	Measure Point	Description _	Top of Co	asing.	1.5
	urge Data	•	, .	•		,	)	/ 1	,	
		Volume	Factors <sup>c</sup>			☐ Well Vo	lume ((a-b) x	c) =	gal	
Dia (in	.) 2"	3"	4"	5"	6"	]	((4 2)	-,	O~.	
Gal/ft	0.163	0.367	0.653	1.020	0 1.469	Purging	Volume (3 x	Well Vol) =	gal	
	rging Method: Quality Indic			staltic	bailer oth	er	_ Depth pur	np set (ft bmp)		-
	Cumulative	Water				Specific				
	Gallons	Level	Te	mp	рН	Cond.	TDS	DO	ORP	
Time	Purged	(ft bmp	) (°	°C)	(SU)	(mS/cm)	(g/l)	(mg/l)	(mV)	
-					2 *	- interest	16 F	a ( *		
	,									
				:327						
										$\neg$
										$\neg$
										$\dashv$
										$\dashv$
										$\dashv$
						<				$\dashv$
										$\dashv$
ecording Ir	nterval: Traditiona	ıl volume purş	ge - every ½ v	well volum	ne; Low flow - e	l very 3-5 min, drav	wdown should n	ot exceed 0.33ft d	uring purging	 ;-
Total Ga	llons Purged _				Approxim	ate Discharge	Rate (gpm): _			
Sample (	<b>Data</b> Collection Met	hod sub	marsible	narista	ltic bailer	other	c.	ampla Tima		
Comme								cate Collected		
Stability	• pH: ±0.1						Comple to le	ing left :- ··-!		
Criteria:	<ul> <li>SC: ±5%, for SC</li> <li>DO: ±10% or 0.</li> </ul>				cm		(circle yes or r	oing left in well no) no, <b>length</b> (ft)?	? Y N	_

Temp: ± 0.2°C (USGS for thermistor)

Received by OCD: 3/29/2023 7:55:54 PM



# **Ground Water Sampling Log**

Well ID: 333647103102001

							Date: 2	114/2016	)
Site De	scription/Co	nstruction	Detail						
Project:	HL B	rowns	) (			_ Personnel: _			
Well De	scription/Loca	ition: 🗘 😼 e	welow	ed we	·ll	Tota	al Deptha (ft b	mp): NA	
Type of	Well: Moni Material: PVC	tor Recov	ery Pot	able Irri	gation C	Other			
Casing N	Material: PVC	Steel Ot	her	Dia	meter: 2"	4" <b>6"</b> Oth	ner Scre	en (ft bmp):	Stove Pipe
Conditio	on of Seal: G	ood Poor	Needs R	epair Oth	ner			Well Locke	ed? Y N
<b>Gaugin</b> Static W		bmp) <b>76</b>	0 <u>7</u> T	ime	М	easure Point	Description _		
Comme	/ater Level <sup>b</sup> (ft nts: <b>D. d</b>	not go	eleep	or te	as of	equipme	ut day	nage	
	urge Data					_		•	
		Volume F	actors <sup>c</sup>			Well Vo	lume ((a-b) x	c) =	gal
Dia (in	.) 2"	3"	4"	5"	6"	_			
Gal/ft	0.163	0.367	0.653	1.020	1.469	Purging	Volume (3 x \	Well Vol) =	gal
	rging Method: Quality Indic			staltic ba	ailer othe	r <u> </u>	_ Depth pun	np set (ft bmp	)
	Cumulative	Water				Specific			
	Gallons	Level	1	mp	pH	Cond.	TDS	DO	ORP
Time	Purged	(ft bmp)	- (	(C)	(SU)	(mS/cm)	(g/l)	(mg/l)	(mV)
: 2					v				-
						2			-
								779	
			-	-					
			-						
			-						
ecording Ir	nterval: Tradition	al volume purg	e - every ½ v	well volume;	Low flow - ev	rery 3-5 min, drav	vdown should no	ot exceed 0.33ft o	luring purging.
Total Ga	Illons Purged _			į	Approxima	te Discharge	Rate (gpm): _	_	
Sample Sample	Data Collection Me	thod: subi	mersible	peristalti	c bailer	other	Sa	ample Time	
Comme								cate Collected	
Comme	:1103								
Cambilia									
Criteria:	<ul> <li>pH: ±0.1</li> <li>SC: ±5%, for S0</li> <li>DO: ±10% or 0</li> </ul>				ı		(circle yes or n	ing left in wel o) o, <b>length</b> (ft)?	I? Y N
	<ul> <li>Temp: ± 0.2°C</li> </ul>			*			11 50	o, iengui (II)?	

Received by OCD: 3/29/2023 7:55:54 PM



# **Ground Water Sampling Log**

Well ID: 334113103092901

Date: 2/14/2023

Sito Do	escription/Co	nstruction	Dotail				- C		<del>)</del>
	HL B					Personnel·			
Well De	escription/Loca	tion: N.l.	) at F	od Ca		_ rersonner Tota	al Dentha (ft h	mn): 1114	
Type of	Well: Monit	tor Recov	very Pot	able Irri	igation (	ther Ahai	al ara and	1 des Less	
	Material: PVC								
	on of Seal: Go								
<b>Gaugin</b> Static W		bmp) <u>17</u> (	3.59 1						
Well Pu	urge Data								
		Volume I	Factors <sup>c</sup>			] Well Vo	lume ((a-h) x	c) =	gal
Dia (in	.) 2"	3"	4"	5"	6"	] """	idilic ((d b) X	·)	. bui
Gal/ft	0.163	0.367	0.653	1.020	1.469	Purging	Volume (3 x \	Well Vol) =	gal
	rging Method: Quality Indic			staltic b	ailer othe	_	_ Depth pun	np set (ft bmp	)
	Cumulative	Water				Specific			
Time	Gallons	Level		emp	pH (SLI)	Cond.	TDS (~(1)	DO (ma/l)	ORP
Time	Purged	(ft bmp	,   (	°C)	(SU)	(mS/cm)	(g/l)	(mg/l)	(mV)
		÷_	¥3		2 *		: 40		=
		_							
			_						
	-				-				
			_						
		10 Elitar						-	
-									
ecording l	nterval: Traditiona	l volume nur	go - every %	well volume	· Low flow - e	(en/ 3-5 min, dray	wdown should n	at average 0.33ft o	turing purging
ccording ii	incerval. Traditions	ii voidille pui	ge - every /2	well volume,	, LOW HOW - E	rery 3-3 min, ura	waowii siloala il	or exceed 0.551t t	auring purging.
Total Ga	allons Purged _				Approxima	ate Discharge	Rate (gpm): _		
Sample	Data								
1 <del>-</del>	Collection Met	hod: sub	mersible	peristalt	ic bailer	other	Sa	ample Time	
Comme								cate Collected	
Comme	51163						•		
	<ul> <li>pH: ±0.1</li> <li>SC: ±5%, for SC</li> <li>DO: ±10% or 0</li> </ul>				n		(circle yes or r	oing left in wel no) o, <b>length (</b> ft)?	

Temp: ± 0.2°C (USGS for thermistor)



# **Ground Water Sampling Log**

Well ID: 333847103102001

Date: 3/16/2023

Released to Imaging: 9/29/2023 9:44:48 AM

	scription/Co		n Detail							
	HLBM					_ Personnel: _				
Well De	scription/Loca	tion: <u>Ab</u>	andon	ed w	1) 9	Tota	al Deptha (ft b	mp): <u>V/A</u>		
Type of	Well: Moni	tor Reco	very Pot	able Irr	gation (	Other Aba	rdoned 1	WO11. Li	<u>stove Pipe</u>	
Casing I	Material: PVC	Stee 0	ther	Dia	meter: 2"	′ 4″ <i>6</i> ″)Oth	ner Scre	en (ft bmp):	Stove Pipe	
Condition	on of Seal: Go	ood Poor	Needs R	epair Ot	her	N/A		Well Lock	ed? Y (N)	. 8
Gaugin	g Data									
Static W	/ater Level <sup>b</sup> (ft	bmp) 174	.56 T	īme	M	leasure Point	Description _	Top of C	asing ~2	1 4
Comme	nts:	VIII.						•	<u> </u>	
Well Pu	urge Data							25.		
		Volume	Factorsc			] Well Vo	lume ((a-h) v	c) =	σal	
Dia (in	.) 2"	3"	4"	5"	6"	7	name ((a-b) x	c,	. Sai	
Gal/ft	0.163	0.367	0.653	1.020	1.469	Purging	Volume (3 x	Well Vol) =	gal	
Well Pu	rging Method:	submers	sible peri	staltic b	ailer othe	er	_ Depth pun	np set (ft bmp	)	
Water	Quality Indic	ator Paraı	meters							
	Cumulative	Water				Specific				
	Gallons	Level	Te	mp	рН	Cond.	TDS	DO	ORP	
Time	Purged	(ft bmp	) (°	C)	(SU)	(mS/cm)	(g/l)	(mg/l)	(mV)	
	e . 2				et.					ela:
			307					-		
				-						
				-CE .						
	nterval: Traditiona		ge - every ½ v	vell volume;	Low flow - ev	ery 3-5 min, drav	wdown should no	ot exceed 0.33ft o	luring purging.	
Total Ga	llons Purged _				Approxima	ate Discharge	Rate (gpm): _			
Sample	Data									
	Collection Met	:hod: sub	mersible	peristalt	c bailer	other	Sa	ample Time		
								cate Collected		
Comme	ents	,.	00 1101110 10	. sample	idocio (ii di		Dupii	cate conected	1: 1 1	
0. 1.0										
	• pH: ±0.1	· 100 ·· c/-	. 120/ 500	- 100 ∵C/				ing left in wel	l? Y N	
	<ul> <li>SC: ±5%, for SC</li> <li>DO: ±10% or 0.</li> </ul>				1		(circle yes or r	10)		
	<ul> <li>Temp: ± 0.2°C</li> </ul>			/			It s	o, length (ft)?		



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

No records found.

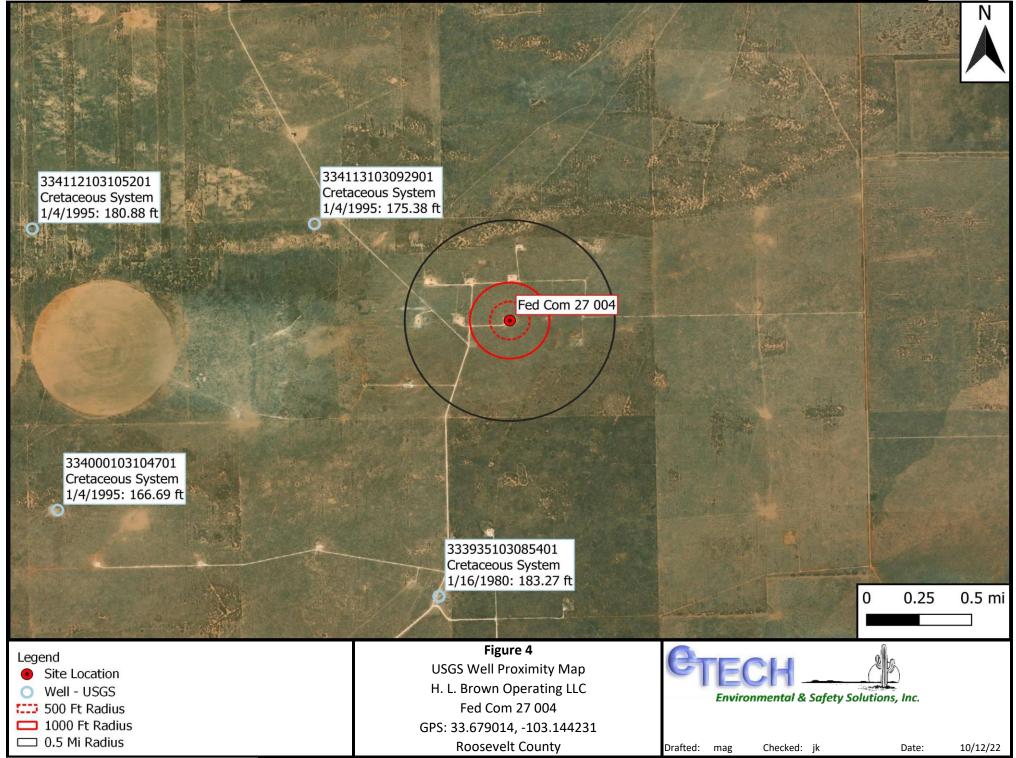
**UTMNAD83 Radius Search (in meters):** 

**Easting (X):** 672029.83 **Northing (Y):** 3728111.87 **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.

10/12/22 9:04 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER





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USGS Water Resources	Data Category:	Geographic Area:		
obdo water resources	Groundwater ~	United States	~	GO

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## Search Results -- 1 sites found

**Agency code =** usgs **site\_no list =** • 333935103085401

#### Minimum number of levels = 1

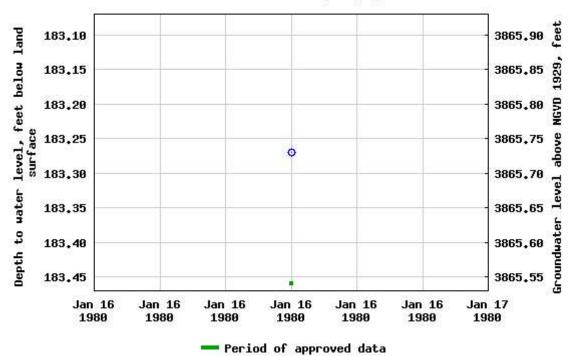
Save file of selected sites to local disk for future upload

# USGS 333935103085401 07S.37E.33.444213

Available data for this site	Groundwater:	Field measurements	<b>∨</b> GO	
Roosevelt County, New Me	xico			
Hydrologic Unit Code 1205	0001			
Latitude 33°39'33", Longit	tude 103°09	9'00" NAD27		
Land-surface elevation 4,0	49.00 feet a	above NGVD29		
The depth of the well is 20	8 feet below	w land surface.		
This well is completed in the	ne High Plai	ns aquifer (N100	HGHPLN) ı	national aquifer.
This well is completed in the	ne Cretaceo	us System (2100	RCS) loca	l aquifer.

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

#### USGS 333935103085401 075,37E,33,444213



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0.58 0.49 nadww01





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**Agency code =** usgs **site\_no list =** • 334000103104701

Minimum number of levels = 1

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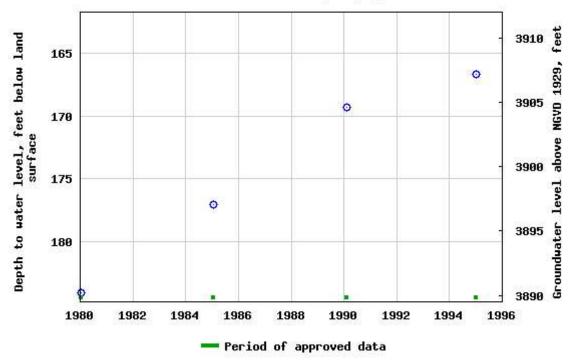
# USGS 334000103104701 07S,37E,32,134131

Available data for this site	Groundwater:	Field measurements	• • GO	
Roosevelt County, New Me	exico			
Hydrologic Unit Code 1205	50001			
Latitude 33°39'57", Longi	tude 103°10	0'53" NAD27		
Land-surface elevation 4,0	)74.00 feet	above NGVD29		
This well is completed in t	he High Plai	ns aquifer (N10	OHGHPLN)	national aquifer.
This well is completed in t	he Cretaceo	us System (210	CRCS) loca	ıl aquifer.

# **Output formats**

Table of data
Tab-separated data
Graph of data
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#### USGS 334000103104701 075,37E,32,134131



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0.63 0.56 nadww01





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# **Search Results -- 1 sites found**

Groundwater levels for the Nation

**Agency code =** usgs **site\_no list =** • 334112103105201

Minimum number of levels = 1

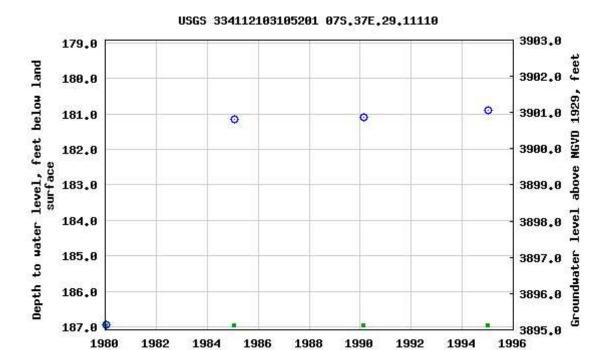
Save file of selected sites to local disk for future upload

# USGS 334112103105201 07S.37E.29.11110

Groundwater:	Field measurements	<b>∨</b>   GO	
xico			
50001			
tude 103°1	0'59" NAD27		
82.00 feet	above NGVD29		
ne High Plai	ns aquifer (N100	HGHPLN) ı	national aquifer.
ne Cretaceo	us System (2100	RCS) loca	l aquifer.
)	xico 0001 tude 103°1 82.00 feet ne High Plai	xico 60001 tude 103°10'59" NAD27 82.00 feet above NGVD29 ne High Plains aquifer (N100	0001 tude 103°10'59" NAD27

# **Output formats**

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Graph of data
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Period of approved data

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0.6 0.52 nadww01





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USGS Water Resources	Data Category:  Groundwater   ✓	Geographic Area: United States	<b>∨</b> GO
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Search Results -- 1 sites found

Groundwater levels for the Nation

**Agency code =** usgs **site\_no list =** • 334113103092901

Minimum number of levels = 1

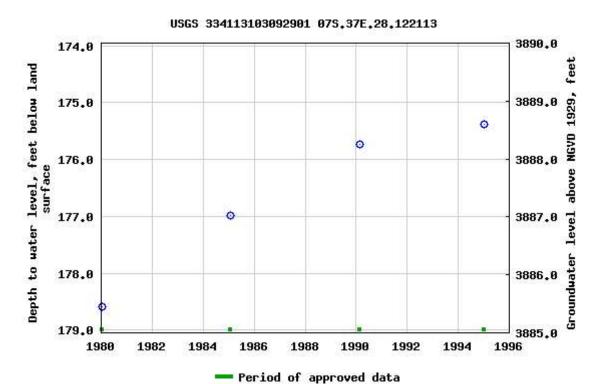
Save file of selected sites to local disk for future upload

Important: <u>Next Generation Monitoring Location Page</u>

# USGS 334113103092901 07S.37E.28.122113

Groundwater:	Field measurements	<b>∨</b>   GO	
xico			
50001			
tude 103°0	9'35" NAD27		
64.00 feet	above NGVD29		
ne High Plai	ns aquifer (N100	HGHPLN) r	national aquifer.
ne Cretaceo	us System (2100	RCS) local	l aquifer.
)	xico 0001 tude 103°0 64.00 feet ne High Plai	xico 60001 tude 103°09'35" NAD27 64.00 feet above NGVD29 ne High Plains aquifer (N100	0001 tude 103°09'35" NAD27

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



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Page Last Modified: 2022-10-11 13:44:03 EDT

0.62 0.55 nadww01



## Appendix B Field Data and Soil Profile Logs

## **Initial Release Assessment Form**

Project:
I U CCC.

Fed Com 27 004

Project Number:

16851 Latitude:

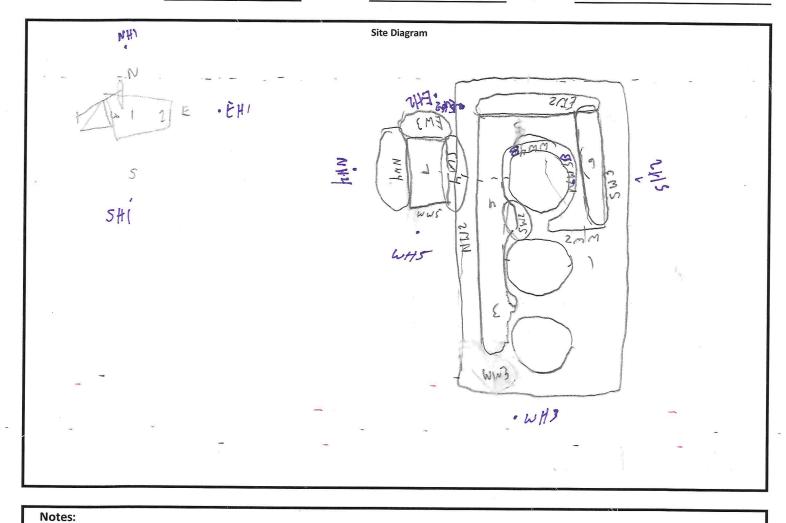
Clean Up Level:

33.679014

Date: 20,000 mg/kg Cl-, 2,500 mg/kg TPH

Longitude: \_\_\_\_\_

-103.144231



~Length:	~Width:	~Area:	~Depth:		
				Yes	No
3-4 Representat	tive Pictures of the Aff	ected Area including sample	e locations?	D. Park	
Necessary Samp	oles Field Screened and	d on Ice?			
Sample and Fiel	d Screen Data Entered	on Sample Log?			
Was horizontal	and vertical delineatio	n achieved?		va /	



## Sample Log

Date:

10-21-22

16851

Latitude:

33.679014

Longitude:

-103.144231

Sample ID	PID/Odor	Chloride Conc.	GPS
7101	50me	6.8 1792	
7202'	_ (	6.4 _1564	
JWI		7.4 2204	
EWI		54 1104	
SWI		5.6 188	
NW1		2.2 232	
F13@3'		3.0 380	2
1403'		4.0 623	
L 5@3'		5.0 952	
£6@3'		4.2 688	2
FL 6@3' FL 7 P 6"	5.	7.0 1916	
NWZ		3.2 429	
NW3		5.0 952	
NW4		7.8 2548	
W		4.0 é28	
EW3	31	6.8 1792	
SWZ		3.9 468	
5W3 -	-	3,0 380	
shy		2.0 200	
ULIZ		2.6 300	
WW 3 -		3.6 (188_	_
WW 4		7.0 1916	
VW3	4	5.0 952	
FIB2'			,
1203'	"		
VWIB			
EWIB			
SWIB			
EII BU'			
2b 5w2b 5w4b Ew3b			
iw 2 h			
W4 b			
EW3b			
1w4b		· ·	
		20-20-20-20-20-20-20-20-20-20-20-20-20-2	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

**GPS Sample Points, Center of Comp Areas** 



## Soil Profile

Environmental & Safety Solutions, Inc.				Date: _	10/21/22
Project: Fed Com 27 004 Project Number:	16851		33.679014	Longitude: _	-103.144231
Project: Fed Com 27 004 Project Number:  Depth (ft. bgs) 6  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30		Latitude:  e / fad Mad  Sand  Sand			
31 32 33 34 35 36 37 38 39 40					Released to Imaging: 9729/2023 9:44:48 AM
	***************************************				Released to Image

# **Appendix C Laboratory Analytical Reports**



December 16, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: FED COM #27 004

Enclosed are the results of analyses for samples received by the laboratory on 12/15/22 15:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 12/15/2022 Sampling Date: 12/15/2022 Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: 16851 Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: NH 1 @ 1' (H225933-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.10	105	2.00	0.959	
Toluene*	<0.050	0.050	12/15/2022	ND	2.12	106	2.00	0.0563	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.07	104	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.37	106	6.00	2.40	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	181	90.4	200	1.80	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	177	88.7	200	0.294	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	99.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	110 9	% 46.3-17	8						

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Celey D. Keene



#### Analytical Results For:

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

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 16851

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: NW 3 B (H225933-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.10	105	2.00	0.959	
Toluene*	<0.050	0.050	12/15/2022	ND	2.12	106	2.00	0.0563	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.07	104	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.37	106	6.00	2.40	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	181	90.4	200	1.80	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	177	88.7	200	0.294	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	76.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.8	% 46.3-17	8						

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Celey D. Keine



#### Analytical Results For:

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

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 16851

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: NH 4 @ 1' (H225933-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2022	ND	2.10	105	2.00	0.959	
Toluene*	<0.050	0.050	12/16/2022	ND	2.12	106	2.00	0.0563	
Ethylbenzene*	<0.050	0.050	12/16/2022	ND	2.07	104	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/16/2022	ND	6.37	106	6.00	2.40	
Total BTEX	<0.300	0.300	12/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	181	90.4	200	1.80	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	177	88.7	200	0.294	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	101 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	112 %	6 46.3-17	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: 16851 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: RURAL ROOSEVELT CO., NM

ma/ka

#### Sample ID: EH 1 @ 1' (H225933-04)

RTFY 8021R

Result <0.050 <0.050 <0.050 <0.150 <0.300	0.050 0.050 0.050 0.050 0.150	Analyzed 12/16/2022 12/16/2022 12/16/2022	Method Blank ND ND	BS 2.10 2.12	% Recovery 105 106	True Value QC 2.00	RPD 0.959	Qualifier
<0.050 <0.050 <0.150	0.050 0.050	12/16/2022					0.959	
<0.050 <0.150	0.050		ND	2.12	106			
<0.150		12/16/2022			100	2.00	0.0563	
	0.150	• •	ND	2.07	104	2.00	1.52	
<0.300		12/16/2022	ND	6.37	106	6.00	2.40	
	0.300	12/16/2022	ND					
108	% 69.9-14	0						
mg/kg		Analyzed By: GM						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
224	16.0	12/16/2022	ND	400	100	400	7.69	
mg	/kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/16/2022	ND	181	90.4	200	1.80	
<10.0	10.0	12/16/2022	ND	177	88.7	200	0.294	
<10.0	10.0	12/16/2022	ND					
98.6	% 45.3-16	1						
-	mg, Result 224 mg, Result <10.0 <10.0	mg/kg           Result         Reporting Limit           224         16.0           mg/kg           Result         Reporting Limit           <10.0         10.0           <10.0         10.0	mg/kg         Analyze           Result         Reporting Limit         Analyzed           224         16.0         12/16/2022           mg/kg         Analyze           Result         Reporting Limit         Analyzed           <10.0	mg/kg         Analyzed By: GM           Result         Reporting Limit         Analyzed         Method Blank           224         16.0         12/16/2022         ND           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank           <10.0	mg/kg         Analyzed By: GM           Result         Reporting Limit         Analyzed         Method Blank         BS           224         16.0         12/16/2022         ND         400           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS           <10.0	mg/kg         Analyzed By: GM           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           224         16.0         12/16/2022         ND         400         100           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <10.0	mg/kg         Analyzed By: GM           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           224         16.0         12/16/2022         ND         400         100         400           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <10.0	mg/kg         Analyzed By: GM           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           224         16.0         12/16/2022         ND         400         100         400         7.69           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <10.0

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Celey D. Keine



### Analytical Results For:

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

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: 16851 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: RURAL ROOSEVELT CO., NM

ma/ka

#### Sample ID: EH 2 @ 1' (H225933-05)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.16	108	2.00	3.38	
Toluene*	<0.050	0.050	12/15/2022	ND	2.23	112	2.00	4.36	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.25	112	2.00	4.02	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.76	113	6.00	3.10	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	197	98.5	200	23.7	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	178	88.8	200	26.0	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	92.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101	% 46.3-17	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: 16851 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: RURAL ROOSEVELT CO., NM

ma/ka

#### Sample ID: SH 1 @ 1' (H225933-06)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.16	108	2.00	3.38	
Toluene*	<0.050	0.050	12/15/2022	ND	2.23	112	2.00	4.36	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.25	112	2.00	4.02	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.76	113	6.00	3.10	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	197	98.5	200	23.7	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	178	88.8	200	26.0	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	96.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	78						

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Celey D. Keine



#### Analytical Results For:

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

12/15/2022

16851

Reported: 12/16/2022

Project Name: FED COM #27 004

Project Number: Project Location: RURAL ROOSEVELT CO., NM Sampling Date: 12/15/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: SH 2 @ 1' (H225933-07)

Received:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.16	108	2.00	3.38	
Toluene*	<0.050	0.050	12/15/2022	ND	2.23	112	2.00	4.36	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.25	112	2.00	4.02	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.76	113	6.00	3.10	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	197	98.5	200	23.7	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	178	88.8	200	26.0	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	107 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	117 9	6 46.3-17	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 16851

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: WH 3 @ 1' (H225933-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.16	108	2.00	3.38	
Toluene*	<0.050	0.050	12/15/2022	ND	2.23	112	2.00	4.36	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.25	112	2.00	4.02	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.76	113	6.00	3.10	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	197	98.5	200	23.7	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	178	88.8	200	26.0	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	93.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102 9	6 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: 16851 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: RURAL ROOSEVELT CO., NM

ma/ka

#### Sample ID: WW 4 B (H225933-09)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.16	108	2.00	3.38	
Toluene*	<0.050	0.050	12/15/2022	ND	2.23	112	2.00	4.36	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.25	112	2.00	4.02	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.76	113	6.00	3.10	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	197	98.5	200	23.7	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	178	88.8	200	26.0	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	94.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	8						

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#### Analytical Results For:

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

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: 16851 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: WH 5 @ 1' (H225933-10)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.16	108	2.00	3.38	
Toluene*	<0.050	0.050	12/15/2022	ND	2.23	112	2.00	4.36	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.25	112	2.00	4.02	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.76	113	6.00	3.10	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2022	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	197	98.5	200	23.7	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	178	88.8	200	26.0	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	107	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	118	% 46.3-17	8						

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Celey D. Keene



#### **Notes and Definitions**

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

Cardinal Laboratories \*=Accredited Analyte

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# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-2	476			7.												111						
Company Name		tions,	Inc							BII	LL TO						ANAL	YSIS	REQ	JEST			
Project Manage	r. Joel Lovry						P	.0. #	¥:									E 189	1				
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City: Hobbs	State: NM	Zip:	882	40			A	ttn:			a Pai		1.41										
	5) 264-9884 Fax #:						A	ddre	ess:	_'			1000	-									
Project #:	685) Project Owner	r: #.	6.	Bre	Un		С	ity:			1 15				-								
Project Name:	Fed Com #27 004						s	tate:	. 1		Zip:		e	8W	21B								
Project Location	1: Eural Rossevelt a	0-1	N	M			Р	hone	e #:			F	Chloride	801	(80								1 1
Sampler Name:	Fed Com #27 004  1: Pural Roosevelt a  Miguel Runtrez	_ ′					F	ax #	:		l .		당	TPH (8015M)	BTEX (8021B)			-					
FOR LAB USE ONLY	8				MAT	RIX		PR	ESE	RV.	SAMPLI	NG		=	P P				- 1				
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8	WH3/O/	6	41	-	Ш	4	_	-		_			Ш	$\vdash$	H	_	+	_	+	_	_	_	$\vdash$
9	WWYB	5	11	+	,	+	-	1	1	-	./		1	1	1.6	+	+-1	_	+	+	-	+-	$\vdash$
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FORM-006 Revision 1.0

Received by OCD: 3/29/2023 7:55:54 PM

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



December 09, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: FED COM 27 004

Enclosed are the results of analyses for samples received by the laboratory on 12/02/22 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 12/02/2022 Sampling Date: 12/01/2022 Reported: 12/09/2022 Sampling Type: Soil

Project Name: FED COM 27 004 Sampling Condition: Cool & Intact
Project Number: 16851 Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: SW 1 C (H225678-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2022	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	12/09/2022	ND	2.07	103	2.00	3.98	
Ethylbenzene*	<0.050	0.050	12/09/2022	ND	2.02	101	2.00	4.62	
Total Xylenes*	< 0.150	0.150	12/09/2022	ND	6.24	104	6.00	4.62	
Total BTEX	<0.300	0.300	12/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	217	108	200	0.808	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	202	101	200	2.41	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					
Surrogate: 1-Chlorooctane	88.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.0	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Mile Sough

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



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

Cardinal Laboratories \*=Accredited Analyte

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

# RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 9/29/2023 9:44:48 AM

Project Manager: Address: 2817 W Marland City: Hobbs State: NM Zip: 88240 Aftre: Project State: NM Zip: 88240 Aftre: Address: Project State: NM Zip: 88240 Aftre: Address: Project State: NM Zip: 88240 Aftre: Address: Project State: NM Zip: 88240 Aftre: Sampler Name: NM Report State: NM Zip: 88240 Aftre: Project Location: NM Report State: NM Zip: 88240 Aftre: Sampler Name: NM Report State: NM Zip: 88240 Aftre: Project Location: NM Report State: NM Zip: State: Zip: Phone 8: NM ATRIX. PRESERY SAMPLING  DATE TIME  AND Sampler I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sampler I.	Company Name	(575) 393-2326 FAX ( e: Etech Environmental &			nc	_		-	Т	-		DI	11 TO						ANIA	I VOI	0 00	OUEO	-		
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analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.    Received By:				+	+	+		+	+	$\perp$	-				$\vdash$			_	_	-	-		-	-	$\vdash$
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.    Received By:	PLEASE NOTE: Liability an	nd Damages. Cardinal's liability and client's ex	clusive remedy for any o	laim ar	ising w	hether	based it	n contr	ract or t	ort, sha	all be lin	nited to	the amount paid	by the client for	the										
Relinquished By:    Date:   Received By:     Phone Result:   Yes   No   Add'l Phone #:   Fax Result:   Yes   No   Add'l Fax #:   Remarks:     Phone Result:   Yes   No   Add'l Fax #:	analyses, All claims includi	ng those for negligence and any other cause	whatsoever shall be deer	med wa	aived u	inless m	ade in	writing	and re	ceived	by Card	linal w	ithin 30 days after	completion of the	ne applicat	ale									
Relinquished By:    Date:   Received By:   Please email results and copy of CoC to pm@etechenv.com.   Please email results and copy of CoC to pm.   Please email results and copy of CoC to pm.   Please email results and copy of CoC to pm.   Please email results and copy of CoC to pm.   Please email results and copy of CoC to pm.   Ple	affiliates or successors arisi	ng out of or related to the performance of sen	vices hereunder by Card	inal, re	gardles	ss of wh	ether s							sons or otherwis	ie.	П Уе	я П	No.	Add'i	Phone	#-				
Delivered By: (Circle One)  #(13 Sample Condition CHECKED BY: Cool intact (Initials)	Ulm	y: Da	7-2-22 16:550 te: F		,	Pal	110	10	7	ck.	llo	la	Kon	Fax Resul	t:										
Delivered By: (Circle One)  ###################################		Ti	me:											Please e	mail n	esults	and o	сору с	of CoC	c to pr	m@et	echenv.	com.		
Sampler - UPS - Bus - Other: 3,7 c /3 / C Yes Yes	Delivered By:			#11	3	Coc	d di	ntact	1			Initi	ED BY: als)							Ρ,	3-1				
U No U No U -	Sampler - UPS	- Bus - Other: 3.7	c/3.1c				Yes No	H	res No		7	0													

FORM-006 Revision 1.0

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



November 22, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: FED COM #27 004

Enclosed are the results of analyses for samples received by the laboratory on 11/16/22 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

 Received:
 11/16/2022
 Sampling Date:
 11/14/2022

 Reported:
 11/22/2022
 Sampling Type:
 Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: FL 1 @ 2' (H225428-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	1.84	92.2	2.00	12.6	
Toluene*	<0.050	0.050	11/18/2022	ND	1.96	97.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	1.73	86.7	2.00	17.5	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	5.13	85.5	6.00	19.2	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6 %	69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	90.0 %	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104 %	6 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Mile Sough

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



#### Analytical Results For:

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

 Received:
 11/16/2022
 Sampling Date:
 11/14/2022

 Reported:
 11/22/2022
 Sampling Type:
 Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: FL 2 @ 2' (H225428-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	1.84	92.2	2.00	12.6	
Toluene*	<0.050	0.050	11/18/2022	ND	1.96	97.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	1.73	86.7	2.00	17.5	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	5.13	85.5	6.00	19.2	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 69.9-14	0						
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	92.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106 9	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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MA Sough

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



#### Analytical Results For:

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

Received: 11/16/2022 Sampling Date: 11/15/2022

Reported: 11/22/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: FL 6 @ 4' (H225428-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	1.84	92.2	2.00	12.6	
Toluene*	<0.050	0.050	11/18/2022	ND	1.96	97.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	1.73	86.7	2.00	17.5	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	5.13	85.5	6.00	19.2	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 69.9-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	84.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.3	% 46.3-17	8						

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Mule Sough

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



Tamara Oldaker

#### Analytical Results For:

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

Received: 11/16/2022 Sampling Date: 11/14/2022

Reported: 11/22/2022 Sampling Type: Soil
Project Name: FED COM #27 004 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By:
Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: NW 1 B (H225428-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	1.84	92.2	2.00	12.6	
Toluene*	<0.050	0.050	11/18/2022	ND	1.96	97.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	1.73	86.7	2.00	17.5	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	5.13	85.5	6.00	19.2	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 69.9-14	0						
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	92.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	110 9	% 46.3-17	8						

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Me Sough

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



#### Analytical Results For:

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

Received: 11/16/2022 Sampling Date: 11/15/2022

Reported: 11/22/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: NW 4 B (H225428-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	2.06	103	2.00	2.95	
Toluene*	<0.050	0.050	11/18/2022	ND	2.19	110	2.00	1.02	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	2.01	101	2.00	0.388	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	6.05	101	6.00	0.151	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 69.9-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	92.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104	% 46.3-17	8						

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Mile Sough

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



#### Analytical Results For:

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

 Received:
 11/16/2022
 Sampling Date:
 11/14/2022

 Reported:
 11/22/2022
 Sampling Type:
 Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: EW 1 B (H225428-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	2.06	103	2.00	2.95	
Toluene*	<0.050	0.050	11/18/2022	ND	2.19	110	2.00	1.02	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	2.01	101	2.00	0.388	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	6.05	101	6.00	0.151	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 69.9-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	88.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101 9	% 46.3-17	8						

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



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 11/16/2022 Sampling Date: 11/15/2022

Reported: 11/22/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: EW 2 B (H225428-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	2.06	103	2.00	2.95	
Toluene*	<0.050	0.050	11/18/2022	ND	2.19	110	2.00	1.02	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	2.01	101	2.00	0.388	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	6.05	101	6.00	0.151	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	86.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	97.6	% 46.3-17	8						

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Mile Sough

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



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 11/16/2022 Sampling Date: 11/15/2022

Reported: 11/22/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: EW 3 B (H225428-08)

Analyte	mg/kg		Analyzed By: JH						
	Result	Reporting Limit	Analyzed	Method Blank	BS % I	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	2.06	103	2.00	2.95	
Toluene*	<0.050	0.050	11/18/2022	ND	2.19	110	2.00	1.02	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	2.01	101	2.00	0.388	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	6.05	101	6.00	0.151	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8 %	69.9-14	0						
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	83.3 %	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.6 %	6 46.3-17	8						

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Mile Sough

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



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 11/16/2022 Sampling Date: 11/14/2022

Reported: 11/22/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: SW 1 B (H225428-09)

Analyte	mg/kg		Analyzed By: JH						
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	2.06	103	2.00	2.95	
Toluene*	<0.050	0.050	11/18/2022	ND	2.19	110	2.00	1.02	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	2.01	101	2.00	0.388	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	6.05	101	6.00	0.151	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 69.9-14	0						
TPH 8015M	mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	2340	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	1210	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	94.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	240 9	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Mile Sough

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



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 11/16/2022 Sampling Date: 11/15/2022

Reported: 11/22/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: SW 2 B (H225428-10)

Analyte	mg/kg		Analyzed By: JH						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Reco	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	2.06	103	2.00	2.95	
Toluene*	<0.050	0.050	11/18/2022	ND	2.19	110	2.00	1.02	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	2.01	101	2.00	0.388	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	6.05	101	6.00	0.151	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 69.9-14	0						
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	84.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101 9	% 46.3-17	<i>'</i> 8						

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Mile Sough

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



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 11/16/2022 Sampling Date: 11/15/2022

Reported: 11/22/2022 Sampling Type: Soil

Project Name: FED COM #27 004 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

#### Sample ID: SW 4 B (H225428-11)

Analyte	mg/kg		Analyzed By: JH						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Re	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	2.06	103	2.00	2.95	
Toluene*	<0.050	0.050	11/18/2022	ND	2.19	110	2.00	1.02	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	2.01	101	2.00	0.388	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	6.05	101	6.00	0.151	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 69.9-14	0						
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	196	98.0	200	5.94	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	197	98.7	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	76.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	80.5	% 46.3-17	8						

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Me Sough

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



#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

Insufficient time to reach temperature.

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

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

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

Received by OCD: 3/29/2023 7:55:54 PM

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ARDINAL	LABORATOR	IES
101 East M	larland, Hobbs, NM	88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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November 01, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: FED COM 22 004

Enclosed are the results of analyses for samples received by the laboratory on 10/25/22 16:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/21/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact
Project Number: 16857 Sample Received By: Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: FL 1 @ 1' (H225022-01)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	<0.025	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	0.213	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	0.213	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	105	% 83.7-11	4						
Surrogate: Toluene-d8	92.9	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	106	% 50.9-15	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/29/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	4180	50.0	10/29/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	1330	50.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	97.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	165	% 46.3-17							

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

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

Received: 10/25/2022 Sampling Date: 10/21/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: RURAL ROOSEVELT CO., NM

mg/kg

# Sample ID: FL 2 @ 1' (H225022-02)

BTEX 8260B

DIEX OZOOB	9	7.49	Allaryzo	u 5,1110					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	<0.025	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	0.189	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	0.189	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	114	% 83.7-11	4						
Surrogate: Toluene-d8	98.3	% 95.3-10	07						
Surrogate: 4-Bromofluorobenzene	98.9	% 50.9-15	50						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/29/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	1770	50.0	10/29/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	684	50.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	89.3	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	153	% 46.3-17	78						

# Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/21/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact
Project Number: 16857 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: RURAL ROOSEVELT CO., NM

mg/kg

# Sample ID: NW 1 (H225022-03)

BTEX 8260B

DIEX GEGGE	9/	119	Analyzo	u 571110					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	<0.025	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	<0.150	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	102 9	% 83.7-11	4						
Surrogate: Toluene-d8	95.6	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	100	% 50.9-15	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/29/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	4060	50.0	10/29/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	1510	50.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	94.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	279	% 46.3-17	8						

# Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



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

# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/21/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact Sample Received By: Project Number: 16857 Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: EW 1 (H225022-04)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	0.027	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	0.196	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	0.223	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	104	% 83.7-11	4						
Surrogate: Toluene-d8	89.1	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	104	% 50.9-15	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/29/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	1560	50.0	10/29/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	217	50.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	91.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	162	% 46.3-17	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



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

# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/21/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact Sample Received By: Project Number: 16857 Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: SW 1 (H225022-05)

BTEX 8260B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	<0.025	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	<0.150	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	102	% 83.7-11	4						
Surrogate: Toluene-d8	91.4	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	101	% 50.9-15	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/29/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	1330	50.0	10/29/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	304	50.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	85.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	210	% 46.3-17	8						

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Celey D. Keine



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

# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/21/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact Project Number: 16857 Sample Received By: Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: WW 1 (H225022-06)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	<0.025	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	<0.150	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	102	% 83.7-11	4						
Surrogate: Toluene-d8	92.7	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	101	% 50.9-15	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	89.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.5	% 46.3-17	8						

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Celey D. Keine



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

# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

ma/ka

Received: 10/25/2022 Sampling Date: 10/25/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact
Project Number: 16857 Sample Received By: Shalyn Rodriguez

Analyzed By: MC

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: FL 3 @ 3' (H225022-07)

RTFY 8260R

BTEX 8260B	mg,	/ Kg	Anaiyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	<0.025	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	0.042	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	0.373	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	0.415	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	100	% 83.7-11	4						
Surrogate: Toluene-d8	93.1	% 95.3-10	17						
Surrogate: 4-Bromofluorobenzene	103	% 50.9-15	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.2	10.0	10/29/2022	ND	195	97.5	200	0.374	
DRO >C10-C28*	291	10.0	10/29/2022	ND	191	95.3	200	4.79	
EXT DRO >C28-C36	51.4	10.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	97.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	113	% 46.3-17	'8						

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

# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/25/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact Sample Received By: Project Number: 16857 Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: FL 4 @ 3' (H225022-08)

BTEX 8260B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	<0.025	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	0.059	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	0.525	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	0.584	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	101	% 83.7-11	4						
Surrogate: Toluene-d8	94.0	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	110	% 50.9-15	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	25.7	10.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	515	10.0	10/29/2022	ND	209	105	200	11.5	QM-07
EXT DRO >C28-C36	56.3	10.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	106	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	128	% 46.3-17	8						

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Celey D. Keine



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

# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/25/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact Project Number: 16857 Sample Received By: Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: FL 5 @ 3' (H225022-09)

BTEX 8260B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	<0.025	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	0.143	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	<0.150	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	102	% 83.7-11	4						
Surrogate: Toluene-d8	93.1	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	104	% 50.9-15	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	247	10.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	11.7	10.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	88.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	107	% 46.3-17	8						

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Celey D. Keine



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

# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/25/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact Project Number: 16857 Sample Received By: Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: FL 6 @ 3' (H225022-10)

BTEX 8260B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	0.128	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	0.373	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	5.16	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	5.66	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	103	% 83.7-11	4						
Surrogate: Toluene-d8	98.1	% 95.3-10	17						
Surrogate: 4-Bromofluorobenzene	153	% 50.9-15	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	228	10.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	1690	10.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	151	10.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	133	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	142	% 46.3-17	<i>'</i> 8						

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Celey D. Keine



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/25/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: FL 7 @ 6" (H225022-11)

BTEX 8260B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	<0.025	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	<0.150	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	102	% 83.7-11	4						
Surrogate: Toluene-d8	91.9	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	102	% 50.9-15	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	412	10.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	28.2	10.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	83.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106	% 46.3-17	8						

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

# Analytical Results For:

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

Received: 10/25/2022 Sampling Date: 10/25/2022 Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact Project Number: 16857 Sample Received By: Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: NW 2 (H225022-12)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	<0.025	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	<0.150	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	98.5	% 83.7-11	4						
Surrogate: Toluene-d8	93.0	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	98.0	% 50.9-15	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	84.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.3	% 46.3-17	8						

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# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/25/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact Sample Received By: Project Number: 16857 Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: NW 3 (H225022-13)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	0.594	0.100	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	1.25	0.100	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	16.2	0.300	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	18.1	0.600	10/29/2022	ND					
Surrogate: Dibromofluoromethane	102	% 83.7-11	4						
Surrogate: Toluene-d8	96.9	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	126	% 50.9-15	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	734	10.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	1880	10.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	148	10.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	142	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	132	% 46.3-17	8						

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# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/25/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact Sample Received By: Project Number: 16857 Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: NW 4 (H225022-14)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	0.118	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	0.212	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	2.02	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	2.35	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	103	% 83.7-11	4						
Surrogate: Toluene-d8	91.1	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	108	% 50.9-15	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	112	50.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	1420	50.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	56.2	50.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	103	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	171	% 46.3-17	8						

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# Analytical Results For:

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

Analyzed By: MS

10/25/2022 Reported: 11/01/2022

Project Name: FED COM 22 004 Project Number: 16857

Project Location: RURAL ROOSEVELT CO., NM

mg/kg

Sampling Date: 10/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

# Sample ID: EW 2 (H225022-15)

Received:

BTEX 8260B

DIEX GEOOD	9	7 119	Allulyzo	u 2,1110					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.15	0.250	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	11.4	0.250	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	7.86	0.250	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	70.4	0.750	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	90.8	1.50	10/29/2022	ND					
Surrogate: Dibromofluoromethane	99.3	% 83.7-11	4						
Surrogate: Toluene-d8	101	% 95.3-10	07						
Surrogate: 4-Bromofluorobenzene	124	% 50.9-15	50						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2620	50.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	7130	50.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	551	50.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	348	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	376	% 46.3-17	78						

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# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/25/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact Project Number: Sample Received By: 16857 Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: EW 3 (H225022-16)

BTEX 8260B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	0.046	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	0.100	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	1.20	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	1.35	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	106	% 83.7-11	4						
Surrogate: Toluene-d8	91.9	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	116	% 50.9-15	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	62.8	50.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	1440	50.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	72.0	50.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	95.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	138	% 46.3-17	8						

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# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/25/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact Project Number: 16857 Sample Received By: Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: SW 2 (H225022-17)

BTEX 8260B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.356	0.100	10/31/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	3.04	0.100	10/31/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	3.24	0.100	10/31/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	23.7	0.300	10/31/2022	ND	6.35	106	6.00	6.27	
Total BTEX	30.4	0.600	10/31/2022	ND					
Surrogate: Dibromofluoromethane	103	% 86.7-11	1						
Surrogate: Toluene-d8	97.1	% 89.3-11	0						
Surrogate: 4-Bromofluorobenzene	128	% 88.2-10	8						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	994	10.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	3550	10.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	379	10.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	224	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	317	% 46.3-17	8						

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10/25/2022

Cool & Intact

Shalyn Rodriguez

Soil

# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Sampling Date:

Sampling Type:

Fax To:

Received: 10/25/2022 Reported: 11/01/2022

Project Name: FED COM 22 004 Sampling Condition: Sample Received By: Project Number: 16857

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: SW 3 (H225022-18)

BTEX 8260B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	<0.025	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	0.044	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	0.459	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	0.503	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	98.8	% 83.7-11	4						
Surrogate: Toluene-d8	96.3	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	104	% 50.9-15	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.3	10.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	151	10.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	102	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	123	% 46.3-17	8						

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# Analytical Results For:

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

10/25/2022 11/01/2022

Project Name: FED COM 22 004 Project Number: 16857

Project Location: RURAL ROOSEVELT CO., NM

Sampling Date: 10/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

# Sample ID: SW 4 (H225022-19)

Received:

Reported:

BTEX 8260B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	<0.100	0.100	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	<0.100	0.100	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	1.58	0.300	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	1.58	0.600	10/29/2022	ND					
Surrogate: Dibromofluoromethane	100 9	% 83.7-11	4						
Surrogate: Toluene-d8	91.9	% 95.3-10	7						
Surrogate: 4-Bromofluorobenzene	116	% 50.9-15	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	148	50.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	3370	50.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	296	50.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	119 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	241	% 46.3-17	8						

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Celeg D. Freene



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/25/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: WW 2 (H225022-20)

BTEX 8260B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/29/2022	ND	1.97	98.5	2.00	5.22	
Toluene*	<0.025	0.025	10/29/2022	ND	1.92	95.8	2.00	7.12	
Ethylbenzene*	<0.025	0.025	10/29/2022	ND	2.03	102	2.00	6.46	
Total Xylenes*	<0.075	0.075	10/29/2022	ND	6.35	106	6.00	6.27	
Total BTEX	<0.150	0.150	10/29/2022	ND					
Surrogate: Dibromofluoromethane	98.8	% 83.7-11	4						
Surrogate: Toluene-d8	94.6	% 95.3-10	17						
Surrogate: 4-Bromofluorobenzene	99.9	% 50.9-15	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/28/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	<10.0	10.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	75.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.4	% 46.3-17	<i>'</i> 8						

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Celey D. Kune



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/25/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact Project Number: 16857 Sample Received By: Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: WW 3 (H225022-21)

BTEX 8260B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Result Reporting Limit		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/31/2022	ND	1.81	90.7	2.00	6.41	
Toluene*	0.075	0.025	10/31/2022	ND	1.75	87.7	2.00	4.90	
Ethylbenzene*	0.041	0.025	10/31/2022	ND	1.83	91.5	2.00	5.64	
Total Xylenes*	0.175	0.075	10/31/2022	ND	5.62	93.7	6.00	6.36	
Total BTEX	0.290	0.150	10/31/2022	ND					
Surrogate: Dibromofluoromethane	95.4	% 86.7-11	1						
Surrogate: Toluene-d8	-d8 92.2 % 89.3-110								
Surrogate: 4-Bromofluorobenzene	100	% 88.2-10	8						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	10/28/2022	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	185	10.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	92.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	112	% 46.3-17	8						

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Celey D. Keine



# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/25/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: WW 4 (H225022-22)

BTEX 8260B	mg	/kg	Analyze	d By: MS					
Analyte	Analyte Result		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.72	1.00	10/31/2022 10/31/2022	ND	1.81	90.7	2.00	6.41	
Toluene*	16.2	1.00		ND	1.75	87.7	2.00	4.90	
Ethylbenzene*	12.4	1.00	10/31/2022	ND	1.83	91.5	2.00	5.64	
Total Xylenes*	88.8	3.00	10/31/2022	ND	5.62	93.7	6.00	6.36	
Total BTEX	119	6.00	10/31/2022	ND					
Surrogate: Dibromofluoromethane	Dibromofluoromethane 95.6% 86.7-111		1						
Surrogate: Toluene-d8	rrogate: Toluene-d8 95.2 % 89.3-110		0						
Surrogate: 4-Bromofluorobenzene	104	% 88.2-10	8						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	10/28/2022	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3960	50.0	10/29/2022	ND	197	98.5	200	5.20	
DRO >C10-C28*	9770	50.0	10/29/2022	ND	209	105	200	11.5	
EXT DRO >C28-C36	875	50.0	10/29/2022	ND					
Surrogate: 1-Chlorooctane	544	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	707	% 46.3-17	8						

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Celey D. Keine



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

# Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/25/2022 Sampling Date: 10/25/2022

Reported: 11/01/2022 Sampling Type: Soil

Project Name: FED COM 22 004 Sampling Condition: Cool & Intact Sample Received By: Project Number: 16857 Shalyn Rodriguez

Project Location: RURAL ROOSEVELT CO., NM

# Sample ID: WW 5 (H225022-23)

BTEX 8260B	mg,	'kg	Analyze	d By: MS					S-04	
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/31/2022	ND	1.81	90.7	2.00	6.41		
Toluene*	0.030	0.025	10/31/2022	ND	1.75	87.7	2.00	4.90		
Ethylbenzene*	0.028	0.025	10/31/2022	ND	1.83	91.5	2.00	5.64		
Total Xylenes*	0.164	0.075	10/31/2022	ND	5.62	93.7	6.00	6.36		
Total BTEX	0.222	0.150	10/31/2022	ND						
Surrogate: Dibromofluoromethane		% 86.7-11	1							
Surrogate: Toluene-d8 88.1 % 89.3-1			0							
Surrogate: 4-Bromofluorobenzene	104	% 88.2-10	8							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	10/28/2022	ND	416	104	400	7.41		
TPH 8015M	mg,	'kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	28.7	10.0	10/29/2022	ND	197	98.5	200	5.20		
DRO >C10-C28*	204	10.0	10/29/2022	ND	209	105	200	11.5		
EXT DRO >C28-C36	<10.0	10.0	10/29/2022	ND						
Surrogate: 1-Chlorooctane	76.4	% 45.3-16	1							
Surrogate: 1-Chlorooctadecane	92.0	% 46.3-17	8							

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# **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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# **CARDINAL** aboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental 3 Satedy solut	Yous		BILL TO			1	ΔΝΔΙΝ	'SIS P	EQUEST		
Address: 7/19 1/ de / /		P.O. #		T	T		AIVALT	JIJ K	EQUEST		-
City: Hobbi		Comp	ny: H.L. Brown	7							
Phone #: 519-21 U Gazall	5	Attn:		1							
Project #: \\\2\T\		Addres	s:								
Project Name: Fed Change Project Owner: H.L. Brown	Wn	City:									
Project Location: Volve   Project		State:	Zip:	1							
Project Location: Reveal Received Co., NM  ampler Name: Migge   Ramice		Phone	:								
		Fax #:		1				**			
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4 EW)					-	+	-	-			1
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(30)								1			
NOTE: Liability and Damages, Cardinal's liability and				11							1
NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether base in All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether	d in contract or to	rt, shall be lim	ed to the amount paid by the client for the		1						
	terruptions, loss of	eived by Card of use, or loss	al within 30 days after completion of the a profits incurred by client, its subsidiaries.	applicable							
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# **CARDINAL** Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

2/3

Project Manager: Joel Lowry	y solutions	BILL TO	ANALYSIS DECLIEST	
Address: 2617 W. Maria ad		P.O. #:	ANALYSIS REQUEST	
City: Ualle		Company: U.L. Brown	7	
Phone # Con Auto Const	Zip: 88240	Attn:	<b>1</b>	
Project #. 1600		Address:	1	
Project Name: Fed Com 27 004	er: H.L. Brown	City:	1	
Project Location: 12		State: Zip:		
Project Location: Rural Roosere Ito., NM Sampler Name: Mignel Run ire Z FOR LAB USE ONLY		Phone #:		
FOR LAB USE ONLY		Fax #:		
	MATRIX	PRESERV. SAMPLING	<b>-</b>	
	O R			
Lab I.D. Sample I.D.	ATERS			
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11 FL786"	8 W %	DATE TIME		
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15 EW2				
16 EW3 17 SW2				
18 Sw3				
19 SW4				
20 1.14(2				
SE NOTE: Liability and Damages. Cardinal's liability and client's over-				
s. All claims including those for negligence and any other cause whatsoever shall be deer in no event shall Cardinal be liable for incidental or consequental damages, including with s or successors arising out of or related to the performance of services hereunder by Cardin	aim arising whether based in contract or to ned waived unless made in writing and rece	rt, shall be limited to the amount paid by the client for the	ne	
nouished By:	out limitation, business interruptions, loss on al, regardless of whether such claim is bas	f use, or loss of profits incurred by client, its subsidiaries sed upon any of the above stated recessor as at	applicable s,	
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Time:			Dry O alast	
orered By: (Circle One) Observed Temp. °C	Sample Condition	CHECKED BY: Turnaround	Pm @ etechen v com	
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PORM-000 R 3.3 07/18/22	Cool Intact Yes Yes No No	CHECKED BY: Turnaround 1	Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	

Received by OCD: 3/29/2023 7:55:54 PM

Page 28 of 28



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3/3

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

Company Name	: ETech Environ	nmestal 3 80 A	tu	So	luti	ons				ı	BIL	L TO						ANA	LYSI	S RE	QUE	ST			
Project Manage	r: Joel Lowry	, , ,	7					P	0. #	:															
	W. Marland	· .						Company: (4.1. Brown							,										
City: Hob	bs	State: Nm	Zip	: 8	824	0		Attn: Address:																	
Phone #: 57:	5. 264.9884	Fax #:																			-				
	851	Project Owner	r: }	J.L.	Bro	wa		С	ity:																
	Fed Com 27							s	tate:		- 2	Zip:													
	n: Roral Roose							Р	hone	#:														- :	
	Miguel Ray							F	ax #:																
FOR LAB USE ONLY						MAT	RIX		PR	ESE	RV.	SAME	PLING												
Lab I.D.	Sample	e I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE OTHER	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chlorides	BTEX	TON									
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analyses. All claims includi service. In no event shall C affiliates or successors arisi	nd Damages. Cardinal's liability ar ing those for negligence and any of cardinal be liable for incidental or of ing out of or related to the perform	other cause whatsoever shall be consequental damages, including	deeme g withou	d waiv ut limita I, rega	ed unless ation, bus rdless of	s made in siness into whether	writing erruption	and reas, loss	of use,	y Card or loss	dinal wit s of pro	thin 30 days afte fits incurred by o	er completion of t client, its subsidia	the applicat aries, ise.	ble Ye	ne [	] No	bhA	l Phon	o #•					
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Sampler - UPS -	Bus - Other:	Corrected Temp. °C			4	Yes				8	(Initi	7	Thermome Correction						□Y	es Ye	es		d Temp		

# Appendix D Photographic Log

# Photographic Log

**Photo Number:** 

#1

**Photo Direction:** 

West

**Photo Description:** 

Initial release area.



**Photo Number:** 

#2

**Photo Direction:** 

Southeast

**Photo Description:** 

Initial release area.



# Photographic Log

Photo Number:

#3

**Photo Direction:** 

North

**Photo Description:** 

Open remediation excavation.



**Photo Number:** 

#4

**Photo Direction:** 

West

**Photo Description:** 

Open remediation excavation.



# Photographic Log

**Photo Number:** 

#5

Photo Direction:

Southwest

**Photo Description:** 

After completion of remediation activities.



**Photo Number:** 

#6

Photo Direction:

South

**Photo Description:** 

After completion of remediation activities.



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

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

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

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

COMMENTS

Action 202054

# **COMMENTS**

Operator:	OGRID:
H L BROWN OPERATING, LLC	213179
P.O. Box 2237	Action Number:
Midland, TX 79702	202054
	Action Type:
	[C-141] Release Corrective Action (C-141)

## COMMENTS

Created By	Comment	Comment Date
csmith	7/17/23 Returned to OCD Review, to reevaluate Depth to Water information.	7/17/2023

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CONDITIONS

Action 202054

# **CONDITIONS**

Operator:	OGRID:
H L BROWN OPERATING, LLC	213179
P.O. Box 2237 Midland, TX 79702	Action Number: 202054
	Action Type: [C-141] Release Corrective Action (C-141)

# CONDITIONS

Created Bv		Condition Date
nvelez	OCD has accepted the groundwater determination albeit it was outside the preferential 1/2 mile radius determination. Closure report approved; release resolved.	9/29/2023