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Incident ID	nAPP2315058592
District RP	
Facility ID	
Application ID	

### Site Assessment/Characterization

This information mast be provided to the appropriate district office no later than 20 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🗸 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🗸 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🗸 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗸 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🗸 No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗹 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🗹 No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗹 No
Did the release impact areas <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 vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data  Data table of soil contaminant concentration data	ls.

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

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

Received by OCD: 8/17/2023 9:31:38 AM State of New Mexico
Page 4 Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Connor Walker Title: Sr. Engineer \_\_\_\_\_ Date: \_\_ 8/16/2023 Signature: email: cwalker@mewbourne.com Telephone: (806)202-5281 **OCD Only** Received by: Shelly Wells Date: 8/17/2023

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## 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 Attachr	nent Checklist: Each of the following	items must be incl	luded in the closure report.						
A scaled site and sampling diagram as described in 19.15.29.11 NMAC									
✓ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)									
✓ Laboratory analyses	of final sampling (Note: appropriate OD	OC District office n	nust be notified 2 days prior to final sampling)						
✓ Description of remed	iation activities								
may endanger public healt should their operations have human health or the environment compliance with any other restore, reclaim, and re-vegaccordance with 19.15.29.  Printed Name: Connor W	h or the environment. The acceptance of the failed to adequately investigate and resonment. In addition, OCD acceptance of federal, state, or local laws and/or regulgetate the impacted surface area to the collaboration including notification to the O	of a C-141 report by emediate contamina of a C-141 report do lations. The responditions that exist OCD when reclam	ineer						
Signature:	Allhi.	Date:8/16/20							
email: cwalker@mewbo	urne.com	Telephone: (80	6)202-5281						
OCD Only									
Received by: Shelly Wel	ls	_ Date: <u>8/</u>	17/2023						
remediate contamination th		water, human hea	d their operations have failed to adequately investigate and lth, or the environment nor does not relieve the responsible						
Closure Approved by:	Nelson Velez	Date:	12/04/2023						
Printed Name:	Nelson Velez	Title:	Environmental Specialist – Adv						

# Remediation Summary & Soil Closure Request

### Mewbourne Oil Company Black Sheep 4/33 B3OB Fed Com #1H Battery SWD

Lea County, New Mexico
Unit Letter "O", Section 4, Township 22 South, Range 34 East
Latitude 32.4146402° North, Longitude 103.4744698° West
NMOCD Reference No. nAPP2315058592

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D Lubbock, Texas 79413

Ben J. Arguijo

Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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Figure 2 - Site Characterization Map

Figure 3 - Site & Sample Location Map

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#### **APPENDICES**

Appendix A - Depth to Groundwater Information

Appendix B - Field Data & Soil Profile Logs

Appendix C - Photographic Log

Appendix D - Laboratory Analytical Reports

Appendix E - Regulatory Correspondence

#### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Black Sheep 4/33 B3OB Fed Com #1H Battery SWD (henceforth, "Black Sheep 4/33 Battery"). Details of the release are summarized below:

			Locatio	on of Release So	ource			
Latitude:		32.414	16402°		-103.4744698°			
			Provide	ed GPS are in WGS84 for	nat.			
Site Name: Black	Sheep 4	/33 B3O	B Fed Com #1H Batter			Pipeline		
Date Release Dis	covere	d:	5/18/2023	API # (if appli	cable):	N/A		
Unit Letter	Sec	tion	Township	Range	County			
"O"		1	22S	34E	Lea			
Surface Owner:	Sta	te XI	Federal Tribal  Nature a	Private (Na				
Crude Oil		Volume	e Released (bbls)		Volume Re	ecovered (bbls)		
X Produced W	Vater .	Volume	e Released (bbls)	78	Volume Re	ecovered (bbls) 0		
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?  X Yes No N/A						s No N/A		
Condensate		Volume	e Released (bbls)		Volume Re	ecovered (bbls)		
Natural Gas	3	Volume	e Released (Mcf)		Volume Re	Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released Volume/Weight Recovered								
Cause of Releas A fuse on a 6" p		e failed.						
			Iı	nitial Response				
X The source of	of the re	lease has	s been stopped.					
X The impacte	d area l	nas been	secured to protect hur	man health and the e	nvironment.			
X Release mat	erials h	ave been	contained via the use	of berms or dikes, a	bsorbent pad, oi	r other containment devices		
X All free liqu	ids and	recovera	ble materials have be	en removed and mar	aged annronriat	telv		

Previously submitted portions of the NMOCD Form C-141 are available in 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 Black Sheep 4/33 Battery release 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?	2	0'
Did the release impact groundwater or surface water?	Yes	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	Yes	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	X Yes	No

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

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

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Black Sheep 4/33 Battery release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
20'	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	N/A	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

<sup>\*</sup> Measured in milligrams per kilogram (mg/kg)

<sup>†</sup> Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

<sup>‡</sup> The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

#### 4.0 REMEDIATION ACTIVITIES SUMMARY

On May 26, 2023, remediation activities commenced at the Black Sheep 4/33 Battery release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On May 30, 2023, Etech collected 26 confirmation soil samples (NW1, NW2, EW1, EW2, EW3, SW1, SW2, WW1, WW2, WW3, and FL1 @ 3 through FL16 @ 2) from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory method detection limit (MDL), with the exception of soil sample FL16 @ 2, which exhibited a TPH concentration of 19.3 mg/kg. Chloride concentrations ranged from 32.0 mg/kg in soil sample FL10 @ 3 to 640 mg/kg in soil sample EW1, which exceeded the NMOCD Closure Criterion.

On June 2, 2023, Etech collected 22 confirmation soil samples (NW4, NW5, EW4, SW3, WW4, WW5, and FL17 @ 3 through FL32 @ 2) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory MDL, with the exception of soil sample FL30 @ 3, which exhibited a TPH concentration of 15.7 mg/kg. Chloride concentrations ranged from 48.0 mg/kg in soil sample FL18 @ 3 to 480 mg/kg in soil sample FL29 @ 1.

On June 5, 2023, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample EW1. Etech collected one (1) confirmation soil sample (EWB) from the sidewall of the newly excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was 96.0 mg/kg and below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

The final dimensions of the excavated area were approximately 130 to 212 feet in length, six (6) to 46 feet in width, one (1) to three (3) feet in depth. During the course of remediation activities, Etech transported approximately 1,040 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 890 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

#### 5.0 RESTORATION, RECLAMATION & 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. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

#### 6.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Black Sheep 4/33 Battery release site.

#### 7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & 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 Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

#### 8.0 DISTRIBUTION

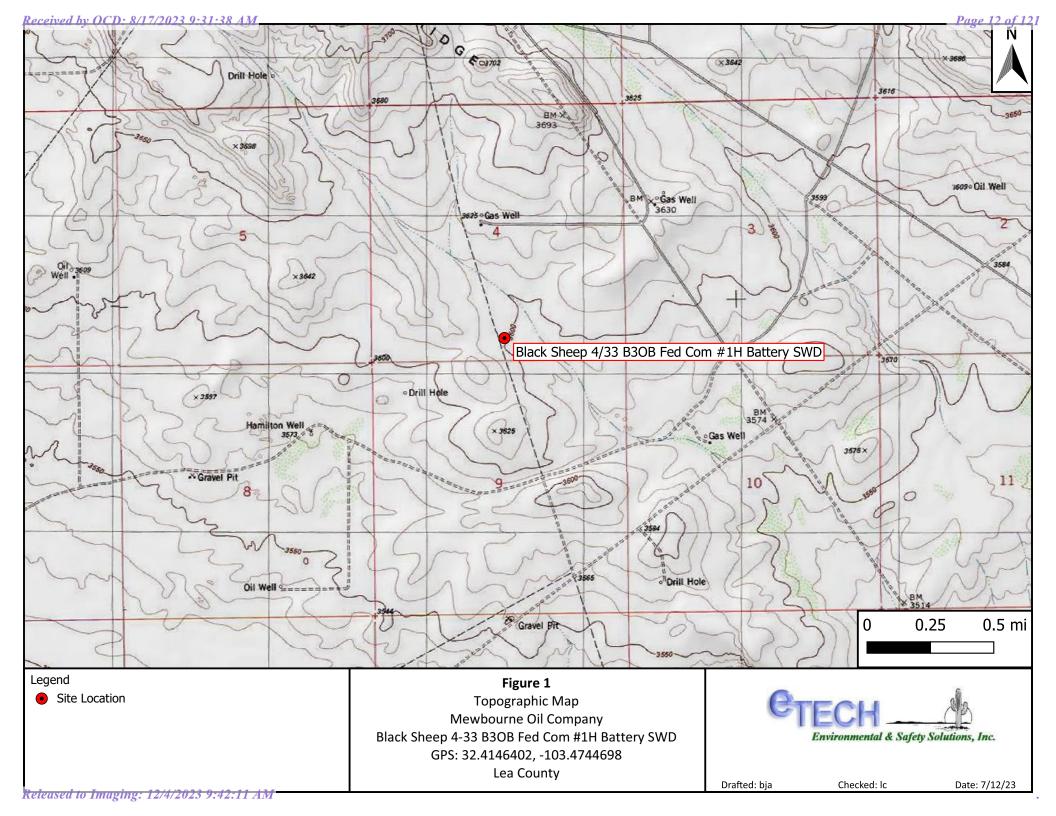
Mewbourne Oil Company 4801 Business Park Blvd. Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

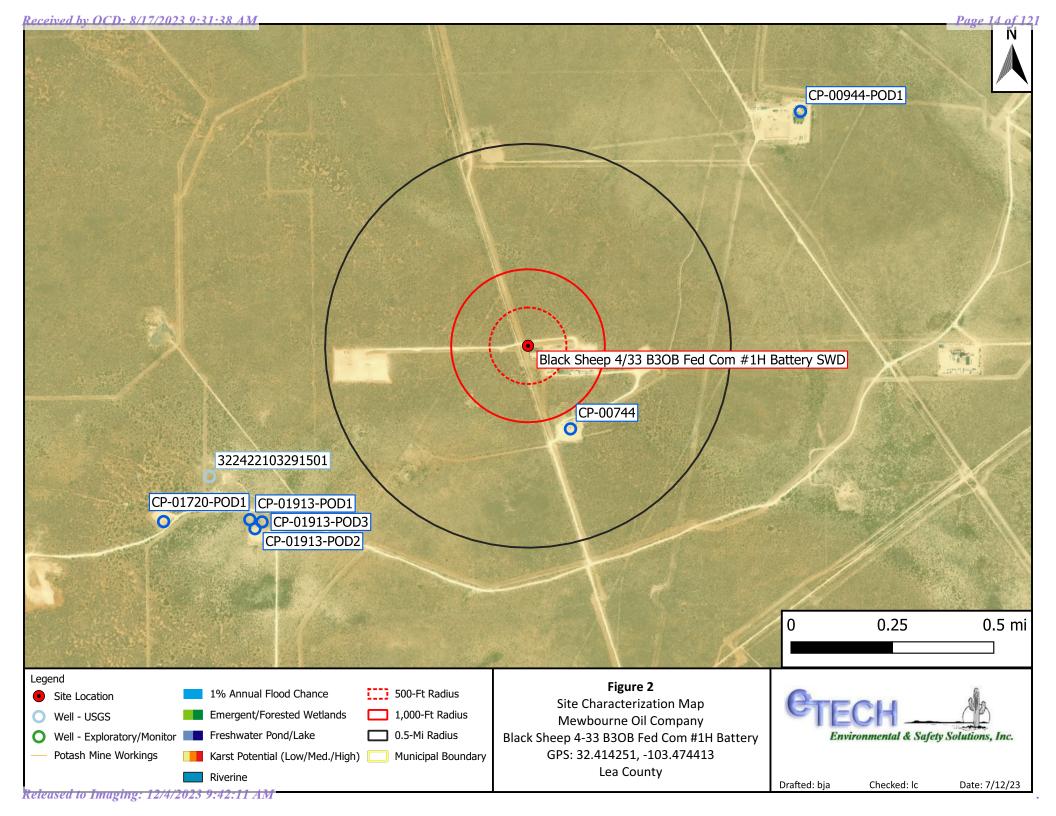
United States Department of the Interior Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220

(Electronic Submission)

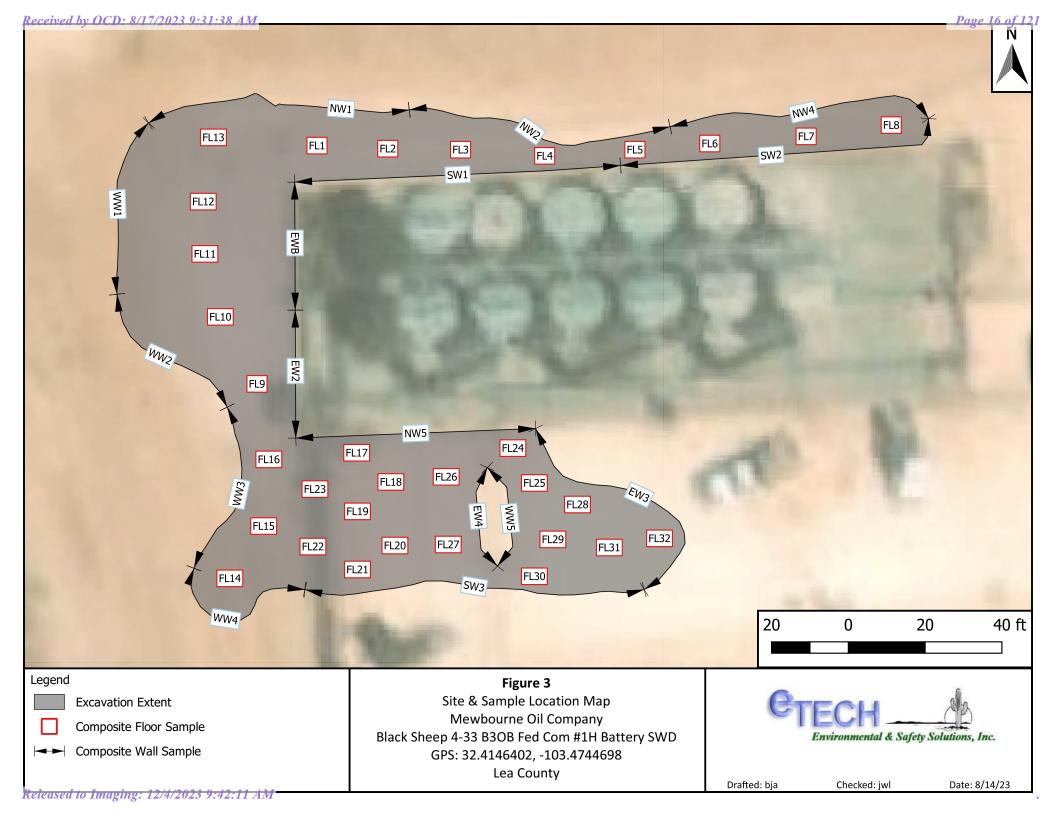
## Figure 1 Topographic Map



# Figure 2 Site Characterization Map



# Figure 3 Site & Sample Location Map



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

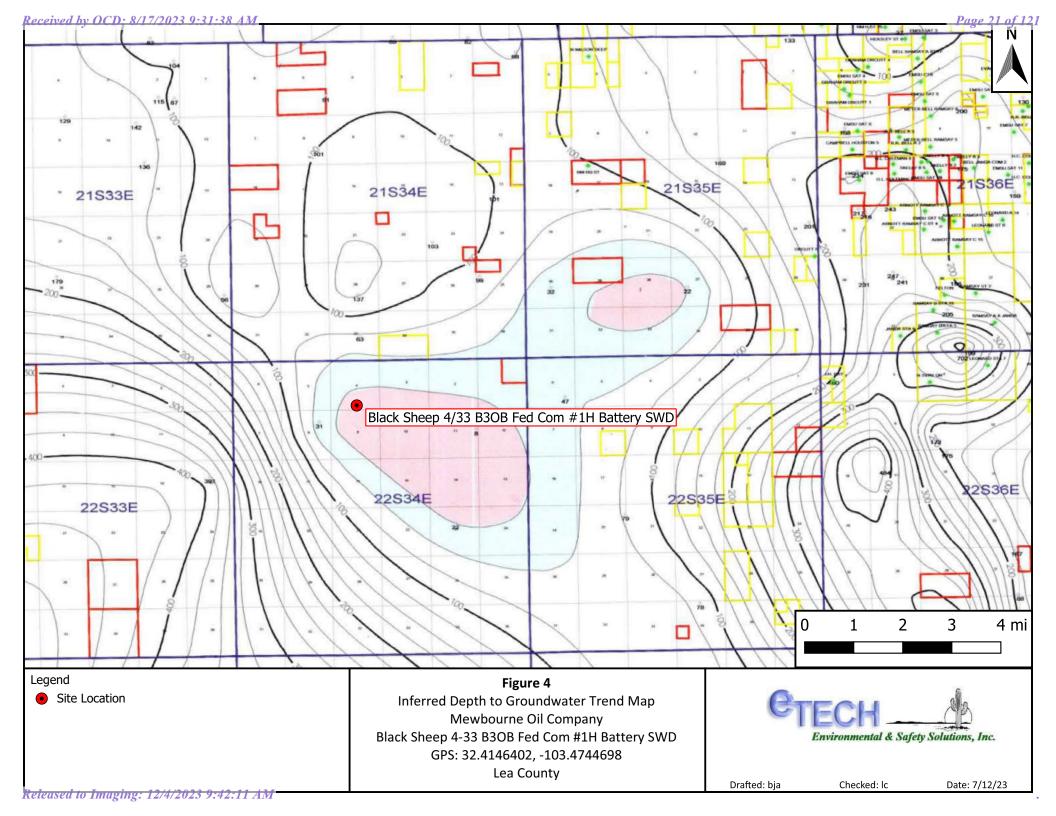
		Table	1		
Concent	rations of	BTEX, T	PH & Chl	oride in S	oil
	Mewb	ourne Oil	Company	7	
Black She	ep 4/33 B	3OB Fed	Com #1H	Battery S'	WD
ľ	NMOCD I	Ref. #: nA	PP231505	8592	

NMOCD Ref. #: nAPP2315058592											
N!	MOCD Closure	Criteria		10	50	N/A	N/A	N/A	N/A	100	600
NMC	CD Reclamation	on Standa	rd	10	50	N/A	N/A	N/A	N/A	100	600
				SW 840	6 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)	$GRO + DRO$ $C_6$ - $C_{28}$ $(mg/kg)$	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)
NW1	5/30/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW2	5/30/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW4	6/2/2023	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW5	6/2/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW1	5/30/2023	0-3	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
EWB	6/5/2023	0-3	In-Situ	-	-	ı	-	-	-	-	96.0
EW2	5/30/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
EW3	5/30/2023	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EW4	6/2/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
SW1	5/30/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW2	5/30/2023	0-2	In-Situ	< 0.050	< 0.300	<10.0	19.3	19.3	<10.0	19.3	240
SW3	6/2/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
WW1	5/30/2023	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW2	5/30/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW3	5/30/2023	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
WW4	6/2/2023	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW5	6/2/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL1 @ 3	5/30/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL2 @ 3	5/30/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL3 @ 3	5/30/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL4 @ 2	5/30/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL5 @ 2	5/30/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL6 @ 2	5/30/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL7 @ 2	5/30/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL8 @ 2	5/30/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL9 @ 2	5/30/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL10 @ 3	5/30/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL11 @ 2	5/30/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL12 @ 2	5/30/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL13 @ 2	5/30/2023		In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL14 @ 2	5/30/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL15 @ 2	5/30/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL16 @ 2	5/30/2023	2	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL17 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL18 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL19 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL20 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL21 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL22 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL23 @ 3	6/2/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL24 @ 1	6/2/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL25 @ 1	6/2/2023	1	In-Situ In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL26 @ 3	6/2/2023	3	In-Situ In-Situ	<0.050 <0.050	<0.300	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<10.0 <10.0	<30.0 <30.0	96.0 208
FL27 @ 3	6/2/2023	3	III-SIIU	\0.U3U	<b>\0.300</b>	<b>~10.0</b>	\1U.U	\∠0.0	\1U.U	<b>\30.0</b>	208

Dash (-): Sample not analyzed for that constituent. **Bold:** NMOCD Closure Criteria exceedance. **Red:** NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Black Sheep 4/33 B3OB Fed Com #1H Battery SWD NMOCD Ref. #: nAPP2315058592											
N	MOCD Closure	e Criteria		10	N/A	N/A	N/A	N/A	100	600	
NMO	CD Reclamati	on Standa	rd	10	50	N/A	N/A	N/A	N/A	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)
FL28 @ 1	6/2/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL29 @ 1	6/2/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL30 @ 3	6/2/2023	3	In-Situ	< 0.050	< 0.300	<10.0	15.7	15.7	<10.0	15.7	160
FL31 @ 2	6/2/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL32 @ 2	6/2/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	160

# Appendix A Depth to Groundwater Information





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

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

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

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

	POD Sub-		Q	QC	)						Depth	Depth	Water
POD Number	Code basin	County	64	16 4	Sec	Tws	Rng	Χ	Υ	Distance	-	Water C	
<u>CP 00744</u>	СР	LE		1 2	2 09	22S	34E	643618	3587091* 🌕	370	460		
CP 00597 POD1	СР	LE		2 2	2 08	22S	34E	642410	3587074* 🌍	1095	35		
CP 01913 POD3	СР	LE	1	4 2	2 08	22S	34E	642394	3586721 🎒	1265	26		
CP 01913 POD1	СР	LE	1	4 2	2 08	22S	34E	642346	3586730 🌕	1301	35	31	4
CP 01913 POD2	СР	LE	1	4 2	2 08	22S	34E	642366	3586694 🌑	1304	31		
CP 00944 POD1	СР	LE		3 ′	1 03	22S	34E	644531	3588351 🎒	1426	109	70	39
CP 01720 POD1	СР	LE	1	3 2	2 08	22S	34E	642003	3586723 🌍	1605	1190	824	366

Average Depth to Water: 308 feet

**DEPTH TO WATER** 

Minimum Depth:

31 feet

Maximum Depth: 824 feet

**Record Count: 7** 

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

Easting (X): 643449.51 **Radius: 1610** Northing (Y): 3587420.77

\*UTM location was derived from PLSS - see Help

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



## **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** 

CP 00744

Q64 Q16 Q4 Sec Tws Rng

643618 3587091\*

**Driller Company:** 

**Driller License:** 

421

GLENN'S WATER WELL SERVICE

**Driller Name:** 

GLENN, CLARK A."CORKY" (LD)

10/06/1989

**Drill Finish Date:** 

10/06/1989

Plug Date:

**Drill Start Date:** Log File Date:

10/17/1989

**PCW Rcv Date:** 

Source:

Shallow

**Pump Type: Casing Size:**  Pipe Discharge Size:

**Estimated Yield:** 

Depth Well:

460 feet

Depth Water:

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2/28/23 10:55 AM

POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help

# STATE ENGINEER OFFICE WELL RECORD

Revised June 1972

WELL RECORD

Owner of Street or	Post Office Ad	ldress <u>C/O</u>	Glenn's	water v	well Servi	<u>9</u> 0₩ne		
	State P.O.		2 Tatum.	N.M.	88267		4//	<del>: /                                   </del>
ell was drilled	d under Permit	No. CP	744	·	and is locate	d in the WTA FE.	Me	
			NE v sa	9		22-S. Ran	MENLE!	TCE
. a	'/4 '/4	i ¼	4 of Se	ction	Township_	Ran	ige = 177=3	, 10 E N.M.P
b. Tract	No	of Map No	),	of	the	Ç.,	<del> </del>	
c. Lot N	in	of Block No		of	the	· ;		
	vision, recorde							
d X=		feet Y=	•	feet	N.M. Coordinate	System		. 7 one
the								Gra
) Drilling (	Contractor	Gl	enn's Wa	ter Wel	ll Service	License No. W	D 421	
•	•				*	Electise IVO		
	.O. Box 6					· · · · · · · · · · · · · · · · · · ·		
illing Began	10/6/89	Com	pleted <u>10/6</u>	/89	Type tools $\frac{I}{I}$	Rotary	Size of	hole 7 7/8
wation of la	nd surface or					ft. Total depth	4	60
				at v	well is	II. I otal depth	oi well	
mpleted wel	llis 🖺 sl	hallow 🗆	artesian.		Depth to water	er upon completion	of well	·
	. '	Sec	ction 2. PRIN	CIPAL WAT	TER-BEARING S	STRATA		w * .
Depth	in Feet	Thickness	s ,			4.,1	Estin	nated Yield
From	То	in Feet		Description (	of Water-Bearing	Formation	(gallon	s per minute)
Well v	was back	filled	with nat	ive di	rt		* .	
			1.			:		•
·			;	···		:		· · · · · · · · · · · · · · · · · · ·
						:		
			Santio	n 2 DECOL	DD OF CASING			
Diameter	Pounds	Threads	· · · · · · · · · · · · · · · · · · ·		RD OF CASING			Perforations
Diameter (inches)	Pounds per foot	Threads per in.	· · · · · · · · · · · · · · · · · · ·	n 3. RECOF in Feet Bottom	Length	Type of Sho	e <del>-                                    </del>	Perforations om To
	1 .	L	Depth	in Feet	Length	Type of Sho	e <del>-                                    </del>	om To
	1 .	L	Depth	in Feet Bottom	Length	Type of Sho	e <del>-                                    </del>	
(inches)	1 .	L	Depth	in Feet Bottom	Length	Type of Sho	e <del>-                                    </del>	om To
(inches)	1 .	L	Depth	in Feet Bottom	Length	Type of Sho	e <del>-                                    </del>	om To
(inches)	per foot	per in.	Depth Top	in Feet Bottom	Length (feet)		e <del>-                                    </del>	om To
(inches)	per foot	per in.	Depth Top	in Feet  Bottom	Length	MENTING	Fr Fr	om To
(inches)	per foot	per in.	Depth Top	RD OF MUI	Length (feet)	MENTING	e <del>-                                    </del>	om To
(inches)	per foot	per in.  Sect	Depth Top  ion 4. RECOI	RD OF MUI	Length (feet)	MENTING	Fr Fr	om To
(inches)	per foot	per in.  Sect	Depth Top  ion 4. RECOI	RD OF MUI	Length (feet)	MENTING	Fr Fr	om To
(inches)	per foot	per in.  Sect	Depth Top  Tion 4. RECOI Sack of Mu	RD OF MUI	Length (feet)	MENTING	Fr Fr	om To
(inches)	per foot	per in.  Sect	Depth Top  Tion 4. RECOI Sack of Mu	RD OF MUI	Length (feet)	MENTING	Fr Fr	om To
(inches)	per foot	per in.  Sect	Depth Top  Sack of Mu	RD OF MUI	Length (feet)  DDING AND CE Cubic Feet of Cement	MENTING	Fr Fr	om To
Depth From	in Feet To	Sect Hole Diameter	Depth Top  Sack of Mu	RD OF MUI	Length (feet)	MENTING	Fr Fr	om To
Depth From	in Feet To	Sect Hole Diameter	Depth Top  Tion 4. RECOI Sack of Mu	RD OF MUI	Length (feet)  DDING AND CE Cubic Feet of Cement	MENTING Metho	od of Placem	nent
Depth From. gging Contr	in Feet To	Sect Hole Diameter	Depth Top  Tion 4. RECOI Sack of Mu	RD OF MUI	Length (feet)  DDING AND CE Cubic Feet of Cement	MENTING	od of Placem	nent  Cubic Feet
Depth From  gging Contr dress gging Metho te Well Plug	in Feet To  actor  od ged	Sect Hole Diameter	Depth Top  Tion 4. RECOI Sack of Mu	RD OF MUI	Length (feet)  DDING AND CE Cubic Feet of Cement  GING RECORD  No. 1	MENTING  Metho	od of Placem	nent  Cubic Feet
Depth From  Igging Contridress Igging Methote Well Plug	in Feet To  actor  od ged	Sect Hole Diameter	Depth Top  Tion 4. RECOI Sack of Mu	RD OF MUI	Length (feet)  DDING AND CE Cubic Feet of Cement  GING RECORD  No.  1 2	MENTING  Metho	od of Placem	nent  Cubic Feet
Depth From  gging Contridress gging Metho	in Feet To  actor  od ged	Sect Hole Diameter	Depth Top  Tion 4. RECOI Sack of Mu	RD OF MUI	Length (feet)  DDING AND CE Cubic Feet of Cement  GING RECORD  No. 1	MENTING  Metho	od of Placem	om To

Location No. 22.34.9.21411

	3)		Section 6. LOG OF HOLE
	in Feet	Thickness in Feet	Color and Type of Material Encountered
From	To -	4	soil
4	22	18	caleche
22	35	13	sand
35	49	14	sand sand
	52		
49		3	gravel
52	63	11	brown sand stone
63	67	4	light blue clay
67	86	19	red clay
86	98	13	purple clay
98	140	42	red clay
140	190	50	brown shale
190	204	14	blue sand rock
204	265	61	brown shale with blue streeks
265	272	7	blue sæd rock
272	320	48	red clay
320	404	132	brown shale
404	415	11	clay conglomerate (red yellow blue)
415	460	45	brown shale
7			
. ,			
,			

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct described hole. described hole.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Solon 5, shall be answered as completely and a rately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed. drilled, repaired or deepened. When this form is Released to Imaging: 12/4/2023 9:42:11 AM

Driller



## **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

CP 00597 POD1 2 2 08 22S 34F

642410 3587074\*

**Driller License:** 122 **Driller Company:** UNKNOWN

**Driller Name:** 

Drill Start Date: Drill Finish Date: Plug Date:

Log File Date:PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield:3 GPM

Casing Size: 6.63 Depth Well: 35 feet Depth Water:

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, or suitability for any particular purpose of the data.

2/28/23 10:59 AM

POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help



## **Transaction Summary**

DCL Declaration of a Water Right

Transaction Number: 546663 Transaction Desc: CP 00597 File Date: 04/17/1979

Primary Status: DCL Declared
Secondary Status: PRC Processed

Person Assigned: \*\*\*\*\*\*

**Applicant:** THE MERCHANT LIVESTOCK COMPANY

#### **Events**

	Date	Type	Description	Comment	Processed By
get images	04/17/1979	APP	Application Received	*	*****
	04/17/1979	FTN	Finalize non-published Trans.		*****
	05/15/2014	QAT	Quality Assurance Completed	SQ2	*****
	09/17/2014	QAT	Quality Assurance Completed	IMAGE	*****
	12/15/2016	QAT	Quality Assurance Completed	DATA	*****

#### Water Right Information

WR File Nbr Acres Diversion Consumptive Purpose of Use

CP 00597 0 3 PLS NON 72-12-1 LIVESTOCK

WATERING

\*\*Point of Diversion

CP 00597 POD1 642410 3587074\*

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

\*\*Place of Use

0 0 0 0

256 64 16 4 Sec Tws Rng Acres Diversion Consumptive Use Priority Status Other Loc Desc

0 3 PLS 12/31/1918 DCL NO PLACE OF USE GIVEN

#### Remarks

NAME OF WELL - HAMILTON

"ABSTRACTOR'S NOTE: THE POD FOR THIS DECLARATION HAS BEEN RE-NUMBERED ACCORDING TO THE APPROVED OSE POD POLICY".

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2/28/23 11:01 AM TRANSACTION SUMMARY



## **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

 Well Tag
 POD Number
 Q64 Q16 Q4 Sec
 Tws
 Rng
 X
 Y

 NA
 CP 01913 POD3
 1 4 2 08 22S 34E 642394 3586721
 642394 3586721

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

**Driller Name:** JACKIE ATKINS

Drill Start Date:08/09/2022Drill Finish Date:08/09/2022Plug Date:Log File Date:08/11/2022PCW Rcv Date:Source:

Pump Type:Pipe Discharge Size:Estimated Yield:Casing Size:Depth Well:26 feetDepth Water:

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, or suitability for any particular purpose of the data.

2/28/23 10:59 AM

POINT OF DIVERSION SUMMARY



## WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

### www.ose.state.nm.us

z	OSE POD NO	). (WELL NO	0.)		WELL TAG ID NO.			OSE FILE NO	(S).				
ATIO	WELL OWN		)					PHONE (OPTI	ONAL)				
LOC	Marathon												
GENERAL AND WELL LOCATION	WELL OWN 4111 S. Ti							CITY Carlsbad			TATE IM 88	220	ZIP
Q.	WELL	T	Di	EGREES	MINUTES	SECON		Ì					
AL A	LOCATIO	ON LA	TITUDE	32	24	30.5	N		REQUIRED:		OF A SECONI	)	
NER	(FROM GI	PS) LO	NGITUDE	103	29	8.8	8 W	* DATUM RE	QUIRED: WGS	84			
l. GE			NG WELL LOCATION TO 8 T22S R34E, NMF		RESS AND COMMON I	LANDMA	ARKS – PL	SS (SECTION, TO	WNSHJIP, RA	NGE) WHER	E AVAILABL	Е	
	NW SET	NE Sec. U	5 1225 K34E, NWIF	-IVI									
	LICENSE NO		NAME OF LICENSED		Jackie D. Atkins						ING COMPAN		no.
	DRILLING S		DRILLING ENDED		OMPLETED WELL (FT)		DODE HO	LE DEPTH (FT)			ENCOUNTER		
	8/9/2		8/9/2022		Soil Boring		BOKE HO	±26	DEPTH WA	NIEK FIRST	N/A	ED (F1)	
N	COMPLETE	D WELL IS:	ARTESIAN	✓ DRY HO	LE SHALLOW	(UNCO	NFINED)		WATER LEVE PLETED WEL		DATE S	TATIC	MEASURED
ATIC	DRILLING F	LUID:	_ AIR	☐ MUD	ADDITIVE	S – SPEC	IFY:						
2. DRILLING & CASING INFORMATION	DRILLING N	METHOD:	ROTARY HAM	MER CAB	LE TOOL 🗸 OTHER	R – SPEC	IFY: I	Hollow Stem	Auger	CHECK HE INSTALLE	RE IF PITLES D	S ADAI	TER IS
INFC	DEPTH	(feet bgl)	BORE HOLE	CASING	MATERIAL AND/	OR	C	ASING	CASI	NG	CASING WALL		SLOT
ING	FROM TO DIAM (inches)		GRADE (include each casing string, and			CON	NECTION TYPE	INSIDE DIAM.		THICKNESS (inches)		SIZE	
CAS	0	26	(inches)	note sections of screen) Soil Boring		$\rightarrow$	(add coupling diameter)		(inches)		(inches)		(inches)
G &	-	20	0.5		Soli Bornig	-+				_			
CLIN						$\neg$				$\neg$			
DRII													
. 2													
				+		-+				-			
						-+				-+			
,	DEPTH	(feet bgl)	BORE HOLE		IST ANNULAR SEA					OUNT		ЕТНО	
3. ANNULAR MATERIAL	FROM	ТО	DIAM. (inches)	GRA	VEL PACK SIZE-R	RANGE	BY INTI	ERVAL	(cub	ic feet)	PL	ACEN	IENT
ATE			-	-							-		
RM											+		
ULA									DEE DI	I AUG 1	1 2022 P	14:11	j
ANN													
3.				-							-		
									I				
	OSE INTER	NAL USE	3-POD3	?	POD NO.	De	D3	WR-2	0 WELL RE	1.0	OG (Versio	n 01/2	3/2022)
	ATION S	26		34. 14z				WELL TAG I		120		PAGE	1 OF 2
		7	-										

	DEPTH (1	TO	THICKNESS (feet)  COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)						s	WATE BEARI (YES / I	NG?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	9	9	Sand, medium/ f	ine grained, po	oorly graded,u	ınconsoli	dated, Brown		Y	√ N	
	9	11	3	Sand, medium/	fine grained, p	oorly graded,	with cla	y, Olive Grey		Y	<b>√</b> N	,
	11	16	5	Sand, medium/ fine	grained, poorl	y graded, with	gravel (	0.25") Olive G	rey	Y	<b>√</b> N	
	16	26	10	C	Clay, Stiff, High	Plasticity, D	eep Red			Y	<b>√</b> N	
										Y	N	
13										Y	N	
4. HYDROGEOLOGIC LOG OF WELL										Y	N	
OF										Y	N	
9										Y	N	
310										Y	N	
03										Y	N	
GEO										Y	N	
NO NO										Y	N	
H						8				Y	N	
4										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:					AL ESTIMA		
	PUM	P \Bar{\Bar{\Bar{\Bar{\Bar{\Bar{\Bar{	IR LIFT	BAILER O	THER – SPECI	FY:			WEI	LL YIELD	(gpm):	0.00
NO	WELL TES	T TEST STAR	RESULTS - ATT T TIME, END TI	ACH A COPY OF DAT ME, AND A TABLE SI	TA COLLECT	ED DURING CHARGE AN	WELL T	TESTING, INC	CLUDI ER TH	NG DISCH E TESTINC	ARGE N	METHOD, D.
RVISION	MISCELLA	NEOUS IN	ORMATION: TI	ne boring was plugge	d using auger	s as tremie t	o land a	shurry of Po	rtland	TVPF I/II	Neat co	ement less than
PER			6.	0 gallons of water per	r 94 lb. sack.	s as treffic t	o ianu a					
TEST; RIG SUPE								U	ob U.	TAUG 1	1 2021	2 рм4:13
X												
EST	PRINT NAN	ME(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSI	TE SUPERVI	SION O	F WELL CON	STRU	CTION OT	HER TH	AN LICENSEE:
5.1	Shane Eldri			, ,								
		-8-,										
TURE	CORRECT	RECORD O	F THE ABOVE I	FIES THAT, TO THE E DESCRIBED HOLE AN 80 DAYS AFTER COM	ND THAT HE	OR SHE WIL	L FILE					
SIGNATURE	Jack A	tkins		Ja	ckie D. Atkin	ıs				8/10/2	2022	
•		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME					I	DATE	
EC	D OCE DITTER	NAT LICE			-			WD 20 W	II DE	COPD 4.7	og ar	mion 01/20/2022
	E NO.	-1917	3-10 A	3	POD NO.	POD.	2	TRN NO.		320		rsion 01/28/2022)
	CATION	real P	22.3	4.142				TAG ID NO.			_	PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



ROSWELL, NM 88201

## STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

732035

File Nbr:

CP 01913

Well File Nbr: CP 01913 POD3

Aug. 11, 2022

MELODIE SANJARI MARATHON OIL 4111 S TIDWELL RD CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 08/15/2022.

The Well Record was received in this office on 08/11/2022, stating that it had been completed on 08/09/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 08/15/2023.

If you have any questions, please feel free to contact us.

Sincerely,

Maret Amaral (575)622-6521

drywell



# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

 Well Tag
 POD Number
 Q64 Q16 Q4 Sec Tws Rng
 X
 Y

 NA
 CP 01913 POD1
 1 4 2 08 22S 34E 642346 3586730
 642346 3586730

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

**Driller Name:** JACKIE ATKINS

**Drill Start Date:** 08/09/2022 **Drill Finish Date:** 08/09/2022 **Plug Date:** 

Log File Date: 08/11/2022 PCW Rcv Date: Source: Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: Depth Well: 35 feet Depth Water: 31 feet

Water Bearing Stratifications:

Top Bottom Description
29 34 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom
0 35

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2/28/23 10:59 AM

POINT OF DIVERSION SUMMARY



## WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

#### www.ose.state.nm.us

NO	OSE POD NO POD-2	. (WELL NO	D.)		WELL TAG ID NO.			OSE FILE NO( CP-	S).			
OCATI	WELL OWNE Marathon (		5)		1			PHONE (OPTI	ONAL)			
VELL L	WELL OWNE 4111 S. Tio							CITY Carlsbad		STA NM		ZIP
GENERAL AND WELL LOCATION	WELL LOCATIO		D	EGREES 32	32 24 29.6			* ACCURACY REQUIRED: ONE TENT     * DATUM REQUIRED: WGS 84			A SECOND	
NER	(FROM GP	S) LC	NGITUDE	103	29	9.	96 W	DATOM KE	QUIRED: WGS 84			
1. GE			NG WELL LOCATION T 8 T22S R34E, NMI		DRESS AND COMMON	N LANDM	IARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) W	HERE A	AVAILABLE	
	LICENSE NO		NAME OF LICENSEI	DRILLER	Jackie D. Atkins				NAME OF WELL DI Atkins En		G COMPANY ing Associates, I	nc.
	DRILLING ST 8/8/2		DRILLING ENDED 8/8/2022	DEPTH OF C	OMPLETED WELL (F Soil Boring	T)		±31	DEPTH WATER FIR		COUNTERED (FT) N/A	
NC	COMPLETED WELL IS: ARTESIAN DRY HOLE SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL N/A 8/8/2022											
ATIC	DRILLING FI	LUID:	☐ AIR	☐ MUD	ADDITIV	/ES – SPE	CIFY:					
RM	DRILLING M	ETHOD:	ROTARY HAM	MER CA	BLE TOOL 🗸 OTH	ER – SPE	CIFY: H	Hollow Stem	Auger CHECK	K HERE LLED	E IF PITLESS ADA	PTER IS
NFO	DEPTH	(feet bgl)	BORE HOLE	CASINO	MATERIAL ANI	D/OR	C.	ASING	CASING	C	ASING WALL	SLOT
DRILLING & CASING INFORMATION	FROM	DOKE HOLE			GRADE (include each casing string, and note sections of screen) (a)			NECTION TYPE ling diameter)	INSIDE DIAM. (inches)		THICKNESS (inches)	SIZE (inches)
& C	0	31	6.5"		Soil Boring		•					
NG												
LLI										_		
DR										_		
7.										+		
				-						+		
				+					OSE DII A	103 4	1 2022 pmd	-
			_	-					- m- m/3 [2]	77	1 2077 PMG	4
				1						+		
	DEPTH	(fact hal)		i .	10T 12D TH 1D 61	EAT 16	TEDIAL	N.T.	AMOUNT	_		
۱,		(feet bgl)	BORE HOLE DIAM. (inches)		JIST ANNULAR SI AVEL PACK SIZE				AMOUNT (cubic feet)		METHO PLACEN	
RIA	FROM	ТО		+					(**************************************			
ANNULAR MATERIAL				+								
R M				+								
[Y				+								
NN												
3. A												
			112									
FOR	OSE INTER	NAL USI						WR-2	0 WELL RECORD	& LO	OG (Version 01/2	8/2022)
	ENO. CF	-19	13-POD	2	POD NO	D. P	S 40		A		35	
LOC	CATION	EVIL	1 22.3	34.08	5.142			WELL TAG I	D NO.	_		1 OF 2
		- //	1									

	DEPTH (1	feet bgl)	*	COLOR AN	D TYPE OF MATERIAL E	NCOLINTERED -		WATER	ESTIMATED
			THICKNESS	110000000000000000000000000000000000000	R-BEARING CAVITIES OF		ES	WATER BEARING?	YIELD FOR WATER-
	FROM	ТО	(feet)	(attach sup	plemental sheets to fully de	escribe all units)		(YES / NO)	BEARING ZONES (gpm)
	0	14	14	Sand, medium/ fine g	grained, poorly graded,unco	nsolidated, Tan and C	Grey	Y ✓N	
	14	16	2	Sand, medium grained	, poorly graded,unconsolidat	ted, with gravel, Olive	green	Y ✓N	
	16	31	14	Cl	lay, Stiff, High Plasticity, De	eep Red		Y ✓N	
								Y N	
								Y N	
H								Y N	
4. HYDROGEOLOGIC LOG OF WELL								Y N	
OF								Y N	
907								Y N	
JIC.								Y N	
707								Y N	
GEO								Y N	
RO								Y N	
HXI								Y N	
4								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING	G STRATA:		TOTA	AL ESTIMATED	
	PUM	P A	IR LIFT	BAILER OT	HER – SPECIFY:		WEI	LL YIELD (gpm):	0.00
		TEST	RESULTS - ATT	ACH A COPY OF DAT	'A COLLECTED DURING	WELL TESTING IN	CLUDI	NG DISCHARGE N	(FTHOD
ON	WELL TES				IOWING DISCHARGE AN				
VISION	MISCELLA	NEOUS INF	ORMATION: TI	ne horing was plugged	l using augers as tremie to	a land a slurry of Po	ortland	TYPE I/II Neat ce	ment less than
PER			6.	0 gallons of water per	94 lb. sack.	on and a starry of the	, tiuliu	TTE DITTOUT CO	ment less than
G SU									
TEST; RIG SUPER									
TEST	PRINT NAM	Æ(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPERVI	SION OF WELL CON	NSTRU	CTION OTHER TH	AN LICENSEE:
5.	Shane Eldric	dge, Came	ron Pruitt, Luc	as Middleton					
Ħ					EST OF HIS OR HER KNO D THAT HE OR SHE WIL				
TUR					PLETION OF WELL DRILL			1 MAG TI XAXX	Mart To
6. SIGNATURE	Jack A	thing		Inc	ckie D. Atkins			8/10/2022	
6. SI	Juck				AKIC D. AKIIIS	_		6/10/2022	
		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME			DATE	
FOI	R OSE INTER	NAL USE				WR-20 WF	ELL RE	CORD & LOG (Ver	sion 01/28/2022)
	ENO. C		3- POT	2 ,	POD NO. P DD Z			73203	
LO	CATION &	KAP	22.3	4.08.142		WELL TAG ID NO.	_		PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



Noswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

732035

File Nbr: Well File Nbr: CP 01913 POD2

CP 01913

Aug. 11, 2022

MELODIE SANJARI MARATHON OIL 4111 S TIDWELL RD CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 08/15/2022.

The Well Record was received in this office on 08/11/2022, stating that it had been completed on 08/08/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 08/15/2023.

If you have any questions, please feel free to contact us.

Sincerely,

Maret Amaral (575) 622 - 6521

drywell



## **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

 Well Tag
 POD Number
 Q64 Q16 Q4 Sec
 Tws
 Rng
 X
 Y

 NA
 CP 01913 POD2
 1 4 2 08 22S 34E 642366 3586694
 642366 3586694

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

**Driller Name:** JACKIE ATKINS

Drill Start Date:08/08/2022Drill Finish Date:08/08/2022Plug Date:Log File Date:08/11/2022PCW Rcv Date:Source:

Pump Type:Pipe Discharge Size:Estimated Yield:Casing Size:Depth Well:31 feetDepth Water:

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, or suitability for any particular purpose of the data.

2/28/23 10:59 AM

POINT OF DIVERSION SUMMARY



## New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

03

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

ws Rng

644531

3588351

**Driller License:** 1456

**Driller Company:** 

WHITE DRILLING COMPANY

**Driller Name:** WHITE, JOHN W

**Drill Start Date:** 03/05/2007

5.00

CP 00944 POD1

**Drill Finish Date:** 

03/05/2007

72 Other/Unknown

Plug Date:

. .

**Log File Date:** 03/22/2007

PCW Rcv Date:

Source:

Shallow

Pump Type: Casing Size: **Pipe Discharge Size:** 

Depth Well:

109 feet

Estimated Yield: Depth Water:

70 feet

Water Bearing Stratifications:

**Bottom Description** 

otion

Casing Perforations:

Top Bottom

57

**Top** 62

97

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, or suitability for any particular purpose of the data.

2/28/23 10:59 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

 Well Tag
 POD Number
 Q64 Q16 Q4
 Sec Tws Rng

 NA
 CP 01720 POD1
 1 3 2 08 22S 34E

**X Y** 642003 3586723

/23 🌉

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

**Driller Name:** CORKY GLENN

Log File Date:06/05/2019PCW Rcv Date:Source:ArtesianPump Type:Pipe Discharge Size:Estimated Yield: 100 GPMCasing Size:8.13Depth Well:1190 feetDepth Water:824 feet

Water Bearing Stratifications: Top Bottom Description

824 1109 Sandstone/Gravel/Conglomerate
1109 1140 Sandstone/Gravel/Conglomerate
1140 1171 Sandstone/Gravel/Conglomerate

Casing Top Bottom Perforations:

728 1190

Meter Number: 19147 Meter Make: SEAMETRICS

Meter Serial Number: 032019000828Meter Multiplier:1.0000Number of Dials:9Meter Type:Diversion

Unit of Measure: Barrels 42 gal. Return Flow Percent:

Usage Multiplier: Reading Frequency: Monthly

------

#### Meter Readings (in Acre-Feet)

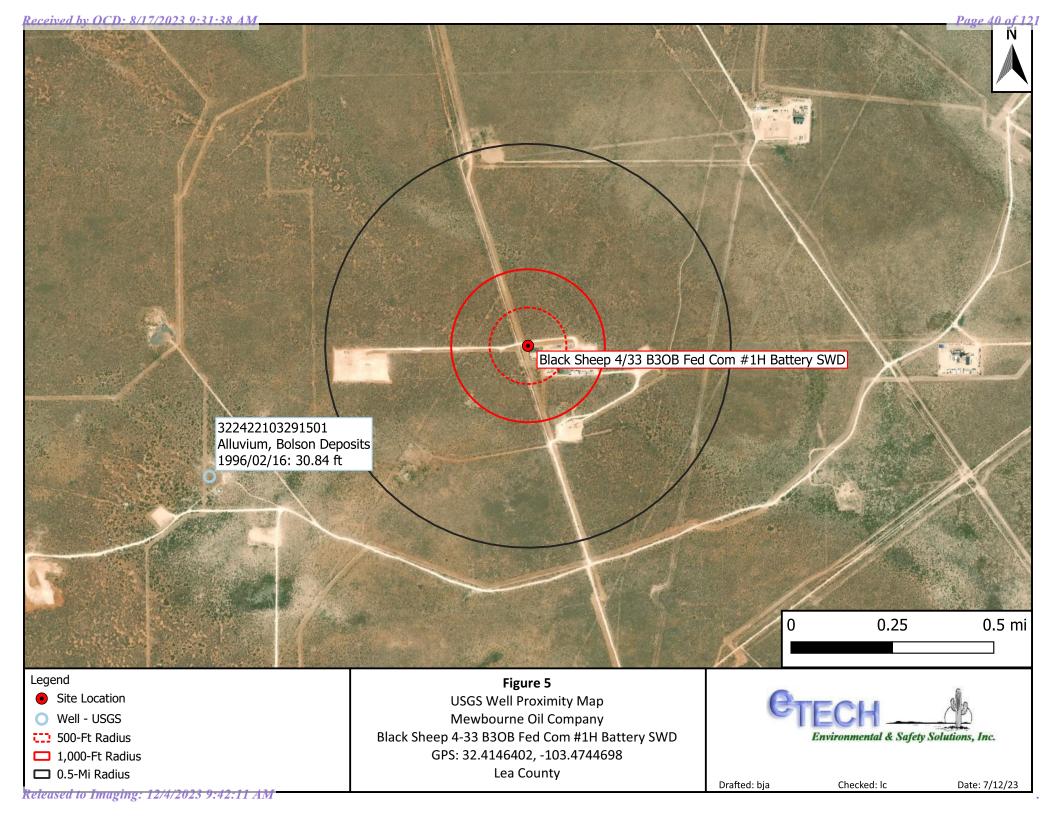
Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
09/05/2019	2019	0	Α	RPT	0
09/14/2019	2019	24359	Α	RPT 10 day pump test	3.140
04/09/2020	2020	24539	Α	RPT	0.023
05/31/2020	2020	24539	Α	WEB	0 X
06/30/2020	2020	24539	Α	WEB	0 X
07/31/2020	2020	61186	Α	WEB	4.724 X
08/31/2020	2020	67016	Α	WEB	0.751 X
09/30/2020	2020	67220	Α	WEB	0.026 X
10/31/2020	2020	96007	Α	WEB	3.710 X
11/30/2020	2020	149485	Α	WEB	6.893 X
12/31/2020	2020	174672	Α	WEB	3.246 X
01/31/2021	2021	206617	Α	WEB	4.117 X
02/28/2021	2021	249261	Α	WEB	5.497 X
03/31/2021	2021	311766	Α	WEB	8.056 X
04/30/2021	2021	339969	Α	WEB	3.635 X
05/31/2021	2021	380626	Α	WEB	5.240 X
06/30/2021	2021	388412	Α	WEB	1.004 X

07/31/2021	2021	420517	Α	WEB
08/31/2021	2021	478711	Α	WEB
09/30/2021	2021	514619	Α	WEB
10/31/2021	2021	564629	Α	WEB
11/30/2021	2021	616373	Α	WEB
**YTD Mete Amounts:	r	Year		Amount
	r	<b>Year</b> 2019		<b>Amount</b> 3.140
	r			

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.

5/24/23 11:11 AM

POINT OF DIVERSION SUMMARY





Click forNews Bulletins

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usqs site\_no list =

• 322422103291501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 322422103291501 22S.34E.08.22333

Lea County, New Mexico Latitude 32°24'36", Longitude 103°29'15" NAD27 Land-surface elevation 3,578.00 feet above NGVD29 The depth of the well is 35 feet below land surface.

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

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

#### **Output formats**

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

Date \$	Time \$	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$\datum\$	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1968-06-10		D	72019	31.64			1	Z			А
1970-12-04		D	72019	31.46			1	Z			Α
1976-12-16		D	72019	30.49			1	Z			А
1981-03-18		D	72019	30.73			1	Z			А

Date \$	Time \$	? Water- level	? Parameter   code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$\datum\$	? Status	? Method of measurement	? Measuring \$\displaystyle{\pi} agency	? Source of measurement	? Water- level approval status	<b>\$</b>
1986-04-10		D	72019	29.83			1	Z				Α
1991-05-03		D	72019	29.52			1	Z				Α
1996-02-16		D	72019	30.84			1	S				Α

#### **Explanation**

Section \$	Code \$	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

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

Accessibility

Policies and Notices

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

Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-05-24 13:14:01 EDT

0.29 0.24 nadww02



# Appendix B Field Data & Soil Profile Logs







## Sample Log

Project:

Black Sheep 4-33 B30B Fed Com 1H Battery

Project Number:

18223

32.414561

Longitude: -103.474203

Sample ID		PID/Odor	Chloride Conc.	GPS
FL1@1	74		2,080	
11102	5.2		972	
fl1@5	3.6		500	
FLZ@ 1	7.4		2080	
FLIEZ	50		909	1
FLZ@3	3.4		456	
FL301	7.2		1 144	
F1302	4.8		836	
(1303	3.0	-	372	
WWI	3.0		372	
EW/	3.4		456	
rlyel :	6.0		1296	
12402	3.2		412	
11501	6.0		1296	
FLSEZ	3.6		500	
FL6@1	7.2		1944	
7662	34		456	
FLTEI	7.0		18/6	
F1782	3.0		372	
F1802	78		336	
WULL =	30		377	
rul	3.0	ry familyania n. a.a.	456	
NWI	3.7	-	9/2	
F1901	4.0		600	
FL9@2	3.0	_	377	
	7.0	»—— ¬,	1818	
(1002	6.0	-	1296	
	2.8		336	
FULLET	4.6		772	
F111@2	3.6		500	
c112.01	4.7		656	
F1 17 e7	3.0		372	
rl 13 E1	11.8		836	
FL13ez	3.2		412	
EW3	7.8	_	336	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ww3	3.2	-	S1/2	

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** 









## Sample Log

-		
Date:		

Black Sheep 4-33 B30B Fed Com 1H Battery Project:

Longitude: 32.414561 Latitude: Project Number: 18223

Sample ID	PID/Odor	Chloride Conc.	GPS
SW ?	8	736	
NW2 3.	2 -	4/2	
SW2 2.	8 -	336	
F1.14@1 4.	0 -	600	
EL1407 3.		500	
FL 1500 4.	2 -	456	
FL1502 3.	4 -	456	
FL1601 3.1	6 -	500	
EL14672 3.	0 -	372	
-1 0 1	0 -	1246	
EL 7.02 11	.1 -	656	
	4 -	7 6 8	
FL 18 @ 1 6.		1388	
FL 18 62 4.		712	
F1 18 @ 3 5.		454	
FL 19 C \ 6.	2 -	1388	
FL 19 ( 2 4)	.4 _	7/7	
1 1 1	.0 -	377=	=
S17081 6.	0 -	1796	
017002 4.	0	600	
\$17003 3.	4	456	
F12101 7.	9	2080	
FL21 0 2 S.	2 _	977	
FL21 @ 3 . Z.	9	336	
F1 32 P1 6.		1296	
EL 12 07 U.	2 -	656	
FL1263 3	6 -	500	
FL 2301 6	2	1296	
F12362 4	. 2	656	
FL 1383 3	4 -	456	
FL7401 3	8	225	
WW4 3-	7 -	417	
FL 25@1 3.	8 -	552	
5V3 3.0	4 -	456	
NW4 3.	7 -	408	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

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



## Sample Log

Date:		

Project:			
Project Number:	Latitude:	 Longitude:	

Sample ID		PID/Odor	Chloride Conc.	GPS
12601	7.7.4		805	
21602	5.0		904	
L 26 @ 3	2.2	_	216	
L7701	6.0	_	1296	
L7762	4.6		776	
1783	3.4	***	457	
2861	7.8		324	
29@1	3.8		556	
30@1	66		1588	
30 02	4.6		776	
30 @3	7.8	)	324	
3101 -	7.0		1876	
3/ 67	3.2	-	908	
3101	7.0		1820	
3762	3.1	* Angelow and the second	408	
WS	2.8	~	3 24	
wa	3.0		369	
1 WS	3.6		500 = =	-
WI	3.0	,	372	
	*			
<u> </u>				
·				

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,				Date:	
roject: Black Sheep	4-33 B30B Fed Co	m 1H Battery			_
roject Number:	18223	Latitude:	32.414561	Longitude:	-103.474203
epth (ft. bgs)		4	De:	scription	
1	Cali	che-sond			
2	Cali	(L)	operative di constitutui per interna interna peratura per internative son incernative son incernative son incer	Madiidamkhiki)MraporamarinaaMradiigameiliekide	tallations of the second secon
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Received by OCD: 8/17/2023 9:31:38 AM

## Appendix C Photographic Log

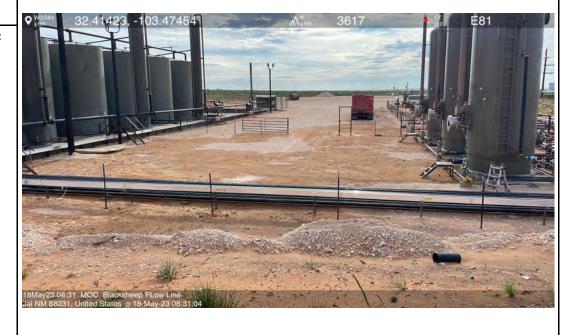
**Photo Number:** 

1

**Photo Direction:** 

East

**Photo Description:** 



View of the affected area.

**Photo Number:** 

2

**Photo Direction:** 

North-Northeast

**Photo Description:** 

View of the affected area.



**Photo Number:** 

3

**Photo Direction:** 

West

**Photo Description:** 



View of the affected area.

**Photo Number:** 

4

**Photo Direction:** 

South-Southeast

**Photo Description:** 

View of the affected area.



Photo Number:

5

Photo Direction: North

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

6

**Photo Direction:** South

**Photo Description:** 

View of the excavated area.



Photo Number:

7

**Photo Direction:**Southeast

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

8

Photo Direction: West

**Photo Description:** 

View of the excavated area.



Photo Number:

9

**Photo Direction:** West-Northwest

**Photo Description:** 

View of the excavated area.



**Photo Number:** 

10

**Photo Direction:** 

West

**Photo Description:** 

View of the remediated area after backfill and regrading.



**Photo Number:** 

11

Photo Direction:

West

**Photo Description:** 

View of the remediated area after backfill and regrading.



**Photo Number:** 

12

**Photo Direction:** 

Northwest

**Photo Description:** 

View of the remediated area after backfill and regrading.



**Photo Number:** 

13

**Photo Direction:** 

North

**Photo Description:** 

View of the remediated area after backfill and regrading.



**Photo Number:** 

14

**Photo Direction:** 

Southeast

**Photo Description:** 

View of the remediated area after backfill and regrading.



# Appendix D Laboratory Analytical Reports



June 02, 2023

LANCE CRENSHAW
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: BLACK SHEEP 4-33 B 306 FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 14:45.

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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By MC

Received: 05/30/2023 Reported: 06/02/2023

ma/ka

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H

Project Number: 18223

Project Location: MEWBOURNE - RURAL LEA

Sampling Date: 05/30/2023

Sampling Type: Soil

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

Sample ID: EW 1 (H232740-01)

DTEV 0021D

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	05/31/2023	ND	384	96.0	400	4.08	
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	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: MEWBOURNE - RURAL LEA

ma/ka

#### Sample ID: EW 2 (H232740-02)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/31/2023	ND	384	96.0	400	4.08	
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	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: EW 3 (H232740-03)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/31/2023	ND	384	96.0	400	4.08	
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*	<10.0	10.0	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	142	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact Sample Received By: Project Number: 18223 Tamara Oldaker

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: WW 1 (H232740-04)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/31/2023	ND	384	96.0	400	4.08	
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	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138 9	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: WW 2 (H232740-05)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/31/2023	ND	384	96.0	400	4.08	
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*	<10.0	10.0	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: WW 3 (H232740-06)

BTEX 8021B

	9/	9	7111411720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/31/2023	ND	384	96.0	400	4.08	
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*	<10.0	10.0	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H

Sampling Condition: Cool & Intact Project Number: Sample Received By: 18223 Tamara Oldaker

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: NW 1 (H232740-07)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/31/2023	ND	432	108	400	3.77	
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	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact Project Number: Sample Received By: 18223 Tamara Oldaker

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: NW 2 (H232740-08)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/31/2023	ND	432	108	400	3.77	
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	05/31/2023	ND	190	95.2	200	3.11	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	199	99.3	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: MS

Received: 05/30/2023 Reported: 06/02/2023 Sampling Date: 05/30/2023
Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H

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

Project Number: 18223

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: SW 1 (H232740-09)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/31/2023	ND	432	108	400	3.77	
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*	<10.0	10.0	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact Project Number: 18223 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: SW 2 (H232740-10)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/31/2023	ND	432	108	400	3.77	
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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	19.3	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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## Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023 Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact Project Number: Sample Received By: 18223 Tamara Oldaker

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 1 @ 3 (H232740-11)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/31/2023	ND	432	108	400	3.77	
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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact Project Number: 18223 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 2 @ 3 (H232740-12)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/31/2023	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.1	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: MS

Received: 05/30/2023 Reported: 06/02/2023 Sampling Date: 05/30/2023 Sampling Type: Soil

Project Name:

BTEX 8021B

BLACK SHEEP 4-33 B 306 FED COM 1H

Sampling Condition: Cool & Intact

Project Number: 18223

Sample Received By:

Tamara Oldaker

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: FL 3 @ 3 (H232740-13)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/31/2023	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: MS

Received: 05/30/2023

Sampling Date:

05/30/2023

Reported: Project Name: 06/02/2023

Sampling Type:

Soil

BTEX 8021B

BLACK SHEEP 4-33 B 306 FED COM 1H

mg/kg

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

Project Number:

18223

Project Location: MEWBOURNE - RURAL LEA

Sample ID: FL 4 @ 2 (H232740-14)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/31/2023	ND	432	108	400	3.77	
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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	110 %	6 48.2-13-	4						
Surrogate: 1-Chlorooctadecane	113 %	6 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: FL 5 @ 2 (H232740-15)

Received:

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/31/2023	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey & Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

05/30/2023 Sampling Date: 05/30/2023 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H

mg/kg

Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 18223 Sample Received By:

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

## Sample ID: FL 6 @ 2 (H232740-16)

Received:

Reported:

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/31/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact Project Number: 18223 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 7 @ 2 (H232740-17)

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	05/31/2023	ND	2.19	109	2.00	8.52	
Toluene*	<0.050	0.050	05/31/2023	ND	2.18	109	2.00	8.54	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.25	112	2.00	8.63	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.54	109	6.00	8.82	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/31/2023	ND	432	108	400	3.77	
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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MEWBOURNE - RURAL LEA

ma/ka

#### Sample ID: FL 8 @ 2 (H232740-18)

RTFY 8021R

BIEX 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	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/31/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: FL 9 @ 2 (H232740-19)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/31/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keine



## Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 05/30/2023 Reported: 06/02/2023 Sampling Date: 05/30/2023 Sampling Type: Soil

Project Name:

BLACK SHEEP 4-33 B 306 FED COM 1H

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

Project Number: 18223

Project Location: MEWBOURNE - RURAL LEA

## Sample ID: FL 10 @ 3 (H232740-20)

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	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
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	05/31/2023	ND	432	108	400	3.77	
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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	98.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: FL 11 @ 2 (H232740-21)

BTEX 8021B

DILX GOZID	ilig/	, kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/31/2023	ND	432	108	400	3.77	
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*	<10.0	10.0	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact Sample Received By: Project Number: 18223 Tamara Oldaker

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 12 @ 2 (H232740-22)

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	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	0.065	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/31/2023	ND	432	108	400	3.77	
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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	Q						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: FL 13 @ 2 (H232740-23)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/31/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 14 @ 2 (H232740-24)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/31/2023	ND	432	108	400	3.77	
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*	<10.0	10.0	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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Celeg & Freene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

mg/kg

Received: 05/30/2023 Sampling Date: 05/30/2023

Reported: 06/02/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 15 @ 2 (H232740-25)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/31/2023	ND	432	108	400	3.77	
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*	<10.0	10.0	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

05/30/2023

Sampling Date:

05/30/2023

Reported: Project Name:

Received:

06/02/2023

Sampling Type:

Soil

BLACK SHEEP 4-33 B 306 FED COM 1H

Sampling Condition:

Cool & Intact

Project Number: Project Location: 18223

MEWBOURNE - RURAL LEA

Sample Received By: Tamara Oldaker

#### Sample ID: FL 16 @ 2 (H232740-26)

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	06/01/2023	ND	2.13	107	2.00	12.3	
Toluene*	<0.050	0.050	06/01/2023	ND	2.13	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/01/2023	ND	2.20	110	2.00	13.3	
Total Xylenes*	<0.150	0.150	06/01/2023	ND	6.42	107	6.00	13.9	
Total BTEX	<0.300	0.300	06/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/31/2023	ND	432	108	400	3.77	
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	05/31/2023	ND	212	106	200	1.53	
DRO >C10-C28*	<10.0	10.0	05/31/2023	ND	170	84.8	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	05/31/2023	ND					
Surrogate: 1-Chlorooctane	109 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

## Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



#### **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  $6^{\circ}\text{C}$ 

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

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Celey D. Keine

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476		
Company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Lanc Cyenshaw	P.O. #:	
Address: P.O. Box 301	Company: Merbourn	
City: Lovington State: NM Zip: 88260	Attn: Jeff Broom	
Phone #: (575) 396-2378 Fax #: (575) 396-1429	Address: 4801 Bus y Blul	
Project #: 18 223 Project Owner: MeWbour n	Attn: Jeff Broom Address: 4801 Bus y Blud City: Hobbos	
Project *: 18 223 Project Owner: MeWbourn  Project Name: Black Sheep 4-33 B30 b Fec Com 1 the  Project Location: Rura Lec  Sampler Name: Project Owner: MeWbourn  MATRIX	State: N/M Zip: 88240	
Project Location: Rural Lec	Phone #:	Chloride PH (8015R
Sampler Name: ( Signature LC-701-	Fax #:	중 ( ) ( ) ( ) ( ) ( ) ( ) ( )
TON DE GREAT	PRESERV SAMPLING	
(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	OTHER: ACID/BASE: ICE / COOL WHER:	
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3 EW3 C !		
4 WW1 01		
S WV 2		
G W 1/3		
8 00/2		
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PLEASE NOTE: Liability-and-Camages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in cor analyses. All claims including those for negligence and any other cause whatevever shall be deemed waived unless made in write		
service. In no event shall Cardinal be listite for incidental or consequental damages, including without limitation, business interrupt affiliates or successors aming out of or reliated to the performance of services treatment by Cardinal, regardless of whether such	one, lose of use, or lose, of graffits broatted by distric, its sweeting	fee,
Refinalished By:  Date: State  Received By:  Tirge; 45  Received By:  Received By:  Received By:	Phone Re Fax Result REMARKS	suit:
Delivered By: (Circle One)  # 1/8 Sample Co	dition CHECKED BY:	mail results to pm@etechenv.com.
Sampler - UPS - Bus - Other: 2.9° /2.3°   Yes	ct (Initials)	

FORM-006 Revision 1.0

Received by OCD: 8/17/2023 9:31:38 AM

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# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	: Etech Environmental & Safety Solu	tion	s, In	C.						B	ILL	TO		h				ANA	LYS	IS R	REQU	EST			
Project Manage	- Lane Crenshaw							P.O	#:					1			T	T		T	T		T		
Address: P.O								Cor	npai	ny:	Mo	w bou	ru								1				
City: Lovingto	on State: NM	Zhp	: 88	260				Ativ	: 1	Je	264	Bro	p Blub												
Phone #: (57	5) 396-2378 Fax #: (575)	196-	1429	)				Add	res	s: L	180	1 Bus	0 Blvd			1	1								
Project #: 182	Project Owne	r: 1	21	ew	bou	vv	2	City	- L	hl	260	5				-				1					
Project Name:	Black Sheep B Rural Lea Qual Rem	301	56	ed	Com	1	H	Stat	te:/	VW	Zip	1882	240		TPH (8015M)	STEX (8021B)									
Project Location	n: - Rural Lea						1	Pho	ne i	:				Chloride	801	(80									
Sampler Name:	West lesm							Fax	#:					CF.	H	X									
FOR LAB USE ONLY					MA	TRIX	8		PRE			SAMPLI			F	18									
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19	FL 9 6 Z	11	11		-	-		1	-	1	-			1	1	11	-	-	-	+	+	-	1	-	-
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	ng out of or related to the performance of services hereunder by	Cardin	d, rega		whethe									DO. 1	D Ye	98	No	Addi	Phon	o #-					
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Released to Imaging: 12/4/2023 9:42:11 AM

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX ( Company Name: Etech Environmental &		, Inc			1		B	ILL TO		-				ANAI	YSIS	RE	QUE	ST		
Project Manager: Lanc Crens	ilmela				F	.0.	:						T							
Address: P.O. Box 301					C	omp	any:	Mew bo	urn	1										
City: Lovington St	tate: NM Zip	882	260		A	ttn:	Je	F Broo	m											
Phone #: (575) 396-2378 Fa	ax #: (575) 396-1	429			I.A	ddre	88:4	801 Bu	op Blod											
Project #: 18223 Pr	roject Owner: 🖊	1eh	16001	n	C	ity:	tob	15				-								
Project #: 18223 Project Name: Black Shell P	4-33 3301	3 Fe	ed Co	m 1	Hs	tate:	MM	Zip: 88	240		SM)	21B								
Project Location: Rural Lec						hone				Chloride	TPH (8015M)	BTEX (8021B)								
Sampler Name: Duentin Com	- 4				F	ax#:				등	H	X								
FOR LAB USE ONLY		П		MATRI	X	PR	ESER	V. SAMP	ING		F	B								
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE -	ACID/BASE:	ICE / COOL		TIME		•									
21/11/02	C	1		1			V	\$30		1	1	1								
22 81 12 02	C	1		1			1	1												
23 FL 13 @ 2	C	1		1						1	1									
24 FL14 @ Z	C	1		1		1		1		1		1	-							
25 A 15 @ 2	C	1	-	1	++	+	1	1	-	1	1	11	-	-	-	-		-	-	-
26 FL 16 @ Z	Ç	14	-	-	++	+	4	1	-	V	~	V	+		-	-	-	-	-	-
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June 07, 2023

LANCE CRENSHAW
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: BLACK SHEEP 4-33 B 306 FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 06/02/23 16:49.

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



06/02/2023

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/02/2023 Sampling Date:

Reported: 06/07/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact Project Number: 18223 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 17 @ 3 (H232819-01)

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	06/06/2023	ND	1.96	98.1	2.00	5.49	
Toluene*	<0.050	0.050	06/06/2023	ND	1.95	97.3	2.00	4.66	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.05	102	2.00	5.82	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.09	102	6.00	6.43	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/06/2023	ND	368	92.0	400	8.33	
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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	77.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.4	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Applyzod By: MC

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 18 @ 3 (H232819-02)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/06/2023	ND	368	92.0	400	8.33	
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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: FL 19 @ 3 (H232819-03)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/06/2023	ND	416	104	400	3.77	
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*	<10.0	10.0	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: FL 20 @ 3 (H232819-04)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/06/2023	ND	416	104	400	3.77	
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*	<10.0	10.0	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.3	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: MS

Sampling Date:

06/02/2023

Reported:

06/02/2023 06/07/2023

Sampling Type:

Soil

Project Name:

Received:

BTEX 8021B

BLACK SHEEP 4-33 B 306 FED COM 1H

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

18223

Sample Received By:

Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 21 @ 3 (H232819-05)

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/06/2023	ND	416	104	400	3.77	
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*	<10.0	10.0	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	90.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Shalyn Rodriguez

Applyzod By: MC

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 22 @ 3 (H232819-06)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
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	06/06/2023	ND	416	104	400	3.77	
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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	85.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/02/2023 Reported:

06/07/2023 Sampling Type: BLACK SHEEP 4-33 B 306 FED COM 1H

Sampling Date:

Sample Received By:

Project Name: Project Number: 18223

Project Location: MEWBOURNE - RURAL LEA

Soil Sampling Condition: Cool & Intact

06/02/2023

Shalyn Rodriguez

#### Sample ID: FL 23 @ 3 (H232819-07)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500CI-B	loride, SM4500Cl-B mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/06/2023	ND	416	104	400	3.77	
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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: FL 24 @ 1 (H232819-08)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/06/2023	ND	416	104	400	3.77	
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*	<10.0	10.0	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	75.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Applyzod By: MC

1 42

Received: 06/02/2023 Reported: 06/07/2023

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H

Project Number: 18223

Project Location: MEWBOURNE - RURAL LEA

Sampling Date: 06/02/2023

Sampling Type: Soil

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

## Sample ID: FL 25 @ 1 (H232819-09)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/06/2023	ND	416	104	400	3.77	
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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	90.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 26 @ 3 (H232819-10)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/06/2023	ND	416	104	400	3.77	
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	06/05/2023	ND	192	96.1	200	17.6	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	192	96.1	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	18						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: FL 27 @ 3 (H232819-11)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/06/2023	ND	416	104	400	3.77	
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*	<10.0	10.0	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	78.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.5	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Applyzod By: MC

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil
Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact

Project Number: 18223

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 28 @ 1 (H232819-12)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/06/2023	ND	416	104	400	3.77	
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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	87.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Applyzod By: MC

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil
Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Coo

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 29 @ 1 (H232819-13)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	06/06/2023	ND	416	104	400	3.77	
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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact Sample Received By: Project Number: 18223 Shalyn Rodriguez

MEWBOURNE - RURAL LEA Project Location:

#### Sample ID: FL 30 @ 3 (H232819-14)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/06/2023	ND	416	104	400	3.77	
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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	15.7	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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Celey D. Keine



Sample Received By:

Shalyn Rodriguez

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact

Project Name: Project Number: 18223

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 31 @ 2 (H232819-15)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/06/2023	ND	416	104	400	3.77	
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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	89.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Shalyn Rodriguez

Applyzod By: MC

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: FL 32 @ 2 (H232819-16)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/06/2023	ND	416	104	400	3.77	
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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.3	% 49.1-14	8						

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#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact Project Number: Sample Received By: 18223 Shalyn Rodriguez

Project Location: MEWBOURNE - RURAL LEA

#### Sample ID: NW 4 (H232819-17)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/06/2023	ND	416	104	400	3.77	
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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.4	% 49.1-14	8						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Analyzed By: MS

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil
Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact

Project Number: 18223

Project Location: MEWBOURNE - RURAL LEA

mg/kg

Sample ID: NW 5 (H232819-18)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/06/2023	ND	416	104	400	3.77	
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*	<10.0	10.0	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Shalyn Rodriguez

Applyzod By: MC

Project Location: MEWBOURNE - RURAL LEA

ma/ka

#### Sample ID: EW 4 (H232819-19)

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	06/05/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/05/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/05/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/05/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/06/2023	ND	416	104	400	3.77	
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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/02/2023 Sampling Date: 06/02/2023

Reported: 06/07/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: MEWBOURNE - RURAL LEA

mg/kg

#### Sample ID: SW 3 (H232819-20)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/06/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/06/2023	ND	416	104	400	3.77	
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*	<10.0	10.0	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

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Celey D. Keene



Shalyn Rodriguez

Sample Received By:

### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: MC

rax

ma/ka

Received: 06/02/2023 Sampling Date: 06/02/2023
Reported: 06/07/2023 Sampling Type: Soil

Reported: 06/07/2023 Sampling Type: Soil
Project Name: BLACK SHEEP 4-33 B 306 FED COM 1H Sampling Condition: Cool & Intact

Project Number: 18223

Project Location: MEWBOURNE - RURAL LEA

Sample ID: WW 4 (H232819-21)

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	06/06/2023	ND	1.97	98.5	2.00	2.15	
Toluene*	<0.050	0.050	06/06/2023	ND	2.00	100	2.00	0.238	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.08	104	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.27	104	6.00	0.591	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-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	06/06/2023	ND	416	104	400	3.77	
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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	85.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

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### Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 06/02/2023 Reported:

06/07/2023 BLACK SHEEP 4-33 B 306 FED COM 1H

Project Name: Project Number: 18223

Project Location: MEWBOURNE - RURAL LEA Sampling Date: 06/02/2023

Sampling Type: Soil

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

### Sample ID: WW 5 (H232819-22)

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	06/06/2023	ND	1.91	95.3	2.00	19.3	
Toluene*	<0.050	0.050	06/06/2023	ND	1.96	98.2	2.00	19.4	
Ethylbenzene*	<0.050	0.050	06/06/2023	ND	2.04	102	2.00	18.8	
Total Xylenes*	<0.150	0.150	06/06/2023	ND	6.02	100	6.00	19.2	
Total BTEX	<0.300	0.300	06/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/06/2023	ND	416	104	400	3.77	
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	06/05/2023	ND	185	92.7	200	4.70	
DRO >C10-C28*	<10.0	10.0	06/05/2023	ND	193	96.4	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	06/05/2023	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.5	% 49.1-14	8						

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### **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

Company Name	: Etech Environment		_	, Inc				T		B	ILL	TO	1					AN	ALYS	SIS F	REQU	EST		
Project Manage		nshaw						P.	0. #							1			W			T		
Address: P.O	). Box 301							C	omp	any:/	Men	bou	rn.							1				
City: Lovingle	on	State: NM	Zip	882	260			A	in:	Je	ff	1300	on											
Phone #: (57	5) 396-2378	Fax #: (575) 3	96-1	429			1	A	idres	18:4	801	Bus	0 Blu	1										
Project #: 18	223	Project Owner	:1	lei	100	UV	n	Ci	ty:	1to1	ohs	,	pBILL			-								
Project Name:	223 Black Sheep 4	1-33 B306	fe	1 (	OM	11	1	SI	ate:/	Na	Zip:	820	ŁO		SM)	ATEX (R024R)								
Project Location	n: RUTAL	Lea							one					Chloride	<b>TPH (8015M)</b>	(80)								
Sampler Name:		Cascret					-	Fa	x #:					S	I	×						1		
FOR LAB USE ONLY						MA	RIX		PRI	SER	/ S	AMPL	NG		1	1 2								
Lab I.D.	Sample I	.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	The same	OTHER:	ACID/BASE:	ICE / COOL	Đ	ATE	THME											
DC. /	F1 17 @ 3		C			V				V	6-	2		V	V	1								
2	FL 18 P 3		C	1		1				1		1		1	1					-				
3	6119 @ 3		C	1			0								П									
4	€1 20 € 3		C	1																				
5	EL 21 63	- 1	C	1		1																		
4	FL 2263		C					1		112	1	1												
7	FL 23@3		C	1				10			1.1		a f											
8	FL 24 & i		C	1		1									1									
9	FL 25@1		C	1		1								1	4		,							
10	FL 26 & 3		C	U		-				V	1	0		12	4	A	1							
analyses. All claims includi service. In no event shall C	12	quented desembles including of services herounder by C Date: 2 Tirree: U49 Date:	withou withou	d waive d limite , regan	d unleas ilon, but	made i inees in whether	writing scruptor	and rec	elvad bj of use, c	Cardine r toss of	relibin 36 pirolija inc	clays afte named by c	r completion of th Bent, its mánidisc	io applica ios, io. Sastt: t;	D Y		□ No		Ti Phor					
Delivered By Sampler - UPS	· (Circle One) - 19	Timo:	2:	3	C	yes No	Intaci		5		KED E	BY:	Please e	mail ı	result	s to	pm@	eteche	env.co	om.				

FORM-006 Revision 1.0

Received by OCD: 8/17/2023 9:31:38 AM

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

## ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions,	Inc.	BILL 7	0			AN	ALYSIS F	REQUEST	
Project Manager: Lanc Crenshaw		P.O. #:							T
Address: P.O. Box 301		Company: MQW. Attn: Teff Bi Address: 481 Bi	bourn						
City: Lovington State: NM Zip:	88260	Attn: Jeff B	00 lm						
Phone #: (575) 396-2378 Fax #: (575) 396-14	29	Address: Ugn B	40BlVd						
Project #: 18223 Project Owner: Me	CW DOUT VI	City: Hobbs	3/0		_				
Project Name: Black Sheep 4-33 B306	fed Com 14"	State: NM Zip: 9	0740	0 1	3TEX (8021B)				
Project Location: Rush) Lea		Phone #:		Chloride	TEX (8021B)				
Project Location: Rural Lea Sampler Name: Dominic Casavez		Fax #:		HO 1	E X				1
FOR LAB USE ONLY	MATRIX	PRESERV. SAI	IPLING	-	- 1				
Lab I.D. Sample I.D. 4wo(c) NO 8PV8 (c)	# CONTAINERS GROUNDWATER WASTEWATER SOIL SLUDGE	OTHER: ACIDIBASE: ICE / COOL ONER:	TE TIME						
D( 1/ 5(27 @ 3 C)	1	1 60	12	1	VV	1			
12 8128 @ 1	(		1						
13 FL 29 @ 1	1								
14 FL 30 @ 3	1								
15 FL31 @ Z	1								
14 FL 32 @ Z	1 1	1 2 1 1 1 1		-					
17 NWU [C]		1							
18 NW5	1								
19 EW4 C				1					
20 SW3		3		1 0	7 1				
LEASE NOTE: Liability and Damages, Cardinat's liability and client's exclusive remedy for any claim a natyses. All claims: including those for negligence and any other cause whatever shall be desmed w	welved unless made in writing and	received by Cardinal within 30 day	ys after completion of the a	applicable					
ervice. In no event shall Cardinal be liable for incidental or contequental damages, iscluding without it Mates or successors arising out of or related to the performance of services hereunder by Cardinal, ri	ogardious of whether such claim is		ted reasons or otherwise.						
Relinquished By:  Date: 6-02 Rec  Time: 149 Contained By:  Date: Rec	elved By:	mey	Phone Result: Fax Result: REMARKS:				Phone #:   Fax #:		
Time:			1						
	Sample Condition	on CHECKED BY:	Please em	ail resu	ults to p	m@eteche	nv.com.		
-1.1000	Cool Intact	(initials)							
Sampler - UPS - Bus - Other:	3 TYES TYES	DK							

FORM-006 Revision 1.0

Received by OCD: 8/17/2023 9:31:38 AM

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

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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	: Etech Environmental & Safety Solu		BILL TO				ANALYSIS REQUEST
Project Manager	: Lanc Crensua	4/	P.O. #:		I		
Address: P.O.		1	Company: [MOLI box	uch			
City: Lovingto	n State: NM	Zip: 88260	Company: Meh box Attn: Teff broom Address: 4801 Bus g City: Hobbs & State: NM Zip: 8824	4			
Phone #: (575	i) 396-2378 Fax #: (575) 3	396-1429	Address: URAL RIV	Rlud			
Project #: /8	223 Project Owne	r. Melvhourn	cinc Hanh Call	DIVE			
	Black Sheep 4-33 B3		State: N/M Zin: 001/	1)	2	18	
Project Location	Russ Les	D legan 111	Phone #:	밑	016	802	
Sampler Name:	Dominil Casave	2	Fax #:	Chloride	TPH (8015M)	BTEX (8021B)	
FOR LAB USE ONLY	1211-11111 1 1 4 Salv 8	MATRIX	PRESERV. SAMPLIN		1	E E	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL	OTHER: ACID/BASE: ICE / COOL OTHER:				
H232819			DATE DATE	TIME	/	/	
Dual aa	WWU 5	CI	V 6-2	V	V		
22	WW5	CIIV	V 6-2	V	IV	V	
				-	-		
					-		
					4		
DI EARE NOTE: Linkilly and	d Damages, Cardinal's liability and client's exclusive remedy for a		t or but aball to finited to the amount and to	u the client for the			
analyses. All claims includin	g those for negligence and any other cusps whatsoever shall be infined be liable for incidental or consequential damages, including	deemed waived unless made in writing as	nd monived by Cardinal within 30 days after o	ompletion of the applic	able		
affiliates or successors arisin	g out of or related to the performance of services hereunder by (	Cardinal, regardless of whether such clain	n is besed upon any of the above stated resso	ons or otherwise.	IP W	- N	14.190 %
Relinquished By	Timez Ley9	Received By:	A- 2-1 F	Phone Result: Fax Result: REMARKS:	☐ Yes		
Relinquished By	Time:	Received By:		Please email	results	to pm@	etechenv.com.
Sampler - UPS	(Circle One) - 19: 10-0-1		(Initials)	)			
EOPM-006	4.0	-4:	what altanges Blaggs for	M44			

FORM-006 Revision 1.0

Received by OCD: 8/17/2023 9:31:38 AM

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



June 09, 2023

LANCE CRENSHAW
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: BLACK SHEEP 4-33 B 30 B FED COM 1H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/05/23 15:05.

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 LANCE CRENSHAW

2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 06/05/2023 Sampling Date: 06/05/2023

Reported: 06/09/2023 Sampling Type: Soil

Project Name: BLACK SHEEP 4-33 B 30 B FED COM 1H | Sampling Condition: Cool & Intact
Project Number: 18223 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE - RURAL EUNICE

### Sample ID: EWB (H232839-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/06/2023	ND	416	104	400	7.41	

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Celey D. Keene



#### **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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ARDINAL LABORA	TORIES
101 East Marland, Hobi	

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 F/	X (575) 393-24	176															
Company Name		tal & Safety Solut	ions	, Inc	7.						B	L	4 70					ANALYSIS REQUEST
Project Manage	er: Lance Crenshaw								P.O	#:								
Address: 261	7 West Marland								Con	npa	ny		Etec	th			1	
City: Hobbs		State: NM	Zip	88	240				Attr	:		Lar	nce Cren	shaw				
Phone #: (57	5) 264-9884	Fax #:							Add	res	s:							
Project #: 182	223	Project Owner	:	Me	wbo	ume			City	:							-	
Project Name:	Black Sheep 4-33 B30	3 Fed Com 1H B	atter	у					Stat	e:	NM	Zi	ip:		9	TPH (8015M)	BTEX (8021B)	
Project Locatio	n: Rural Lea County,	NM							Pho	ne i	F:				Chloride	801	8	
Sampler Name:	Dominic Casarez								Fax	#:					등	F	Ä	
FOR LAB USE ONLY						MA	TRI	K	F	RES	SERV	1	SAMPL	ING	1	F	100	
<b>Lab I.D.</b>	Sample I	.D.	(G)RABOR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:		DATE	TIME				
1	EWb		C	1		X					X		6/5/23		Х			
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						_						L						
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			-	_		+	-	$\vdash$	-	+	+	H					-	
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ervice. In no event shall C	ng those for negligence and any other outlined be limble for incidental or conse	quental damages, including	withou	limita	ion, bu	siness in	terrupt	lons, to	ss of u	se, or f	oos of p	rolle !	incurred by a	Host, ils subsidier	ies,	ple		
Relinguished B	ng out of or related to the performance	Date: 505	Re		ed E		such	4/2	Mised	upon	any of the	he abo	ove stated res	Phone Re- Fax Resul REMARKS	sult: lt:	□ Ye		□ No Add'l Phone #: □ No Add'l Fax #:
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FORM-006 Revision 1.0

Received by OCD: 8/17/2023 9:31:38 AM

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

## Appendix E Regulatory Correspondence

From: <u>Lance Crenshaw</u>
To: <u>Enviro, OCD, EMNRD</u>

Cc: Ben Arguijo; Connor Walker; jbroom@mewbourne.com; Joel Lowry

**Subject:** Confirmation Sampling Notification **Date:** Monday, June 5, 2023 1:21:52 PM

This email serves as notice that Etech intends to collect excavation confirmation soil samples on June 8, 2023 from the following locations/reportable release sites:

Mewbourne Oil Co – Black Sheep 4/33 SWD Line- napp2315058592

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email <a href="mailto:lance@etechenv.com">lance@etechenv.com</a>

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

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

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

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

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

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

CONDITIONS

Action 253165

### **CONDITIONS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	253165
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
nvelez	None	12/4/2023