	Page 1 of 96
Incident ID	nAPP2325141309
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	>115 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🗸 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🗸 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🗸 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗸 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🗸 No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗸 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🗸 No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗸 No
Did the release impact areas not on an exploration, development, production, or storage site?	✓ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	

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

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

Received by OCD: 10/27/2023 3:17:40 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 2 of 9
Incident ID	nAPP2325141309
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name: Connor Walker	Title: Sr. Engineer					
Signature: Alalh	Date:10/27/2023					
email: cwalker@mewbourne.com	Telephone: (806)202-5281					
OCD Only						
Received by: Shelly Wells	Date: 10/27/2023					
OCD Only						

Page 3 of 96

	- "8" · "J
Incident ID	nAPP2325141309
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

✓ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
✓ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
✓ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in
OCD Only	
Received by: Shelly Wells	Date: 10/27/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Scott Rodgers	Date: 01/09/2024
Printed Name: Scott Rodgers	Title:Environmental Specialist Adv.

Remediation Summary & Soil Closure Request

Mewbourne Oil Company ARWMS Deer Booster 82623

Lea County, New Mexico
Unit Letter "O", Section 21, Township 23 South, Range 34 East
Latitude 32.283680° North, Longitude 103.472709° West
NMOCD Reference No. nAPP2325141309

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D Lubbock, Texas 79413

Zen J. Arguijo

Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

TABLE OF CONTENTS

	Section
PROJECT INFORMATION	1.0
SITE CHARACTERIZATION	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	3.0
REMEDIATION ACTIVITIES SUMMARY	4.0
RESTORATION, RECLAMATION & RE-VEGETATION PLAN	5.0
SOIL CLOSURE REQUEST	6 . 0
LIMITATIONS	7 . 0
DISTRIBUTION	8 . 0

FIGURES

- Figure 1 Topographic Map
- Figure 2 Site Characterization Map
- Figure 3 Site & Sample Location Map

TABLES

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

APPENDICES

- Appendix A Depth to Groundwater Information
- Appendix B Field Data
- 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 ARWMS Deer Booster 82623. Details of the release are summarized below:

			Location	ı of Release	Sour	·ce			
Latitude:		32.283680°	ıde:		-103.472709°				
Provided GPS are in WGS84 format.									
Site Name: ARWMS Deer Booster 82623 Site Type: Pipeline									
Date Release Disc	covered:	8/23/	2023	API # (if a	pplicab	ole):	N/A		
Unit Letter	Section	ction Township Range County							
"O"	21	23		34E		Lea]		
Surface Owner:	State	<u> </u>	Tribal		(Name		ne Basin Prop Ranch, LLC		
		IN.	ature and	d Volume	oi Ke	eiease			
Crude Oil	V	olume Released	d (bbls)			Volume Recove	ered (bbls)		
X Produced W	ater V	olume Released	d (bbls)	57		Volume Recove	ered (bbls) 30		
		the concentration				X Yes	No N/A		
Condensate	V	olume Released	d (bbls)			Volume Recove	ered (bbls)		
Natural Gas	V	olume Released	d (Mcf)			Volume Recove	ered (Mcf)		
Other (descr	ribe) Vo	olume/Weight R	Released			Volume/Weight	Recovered		
Cause of Release A 2" poly transit		loped a hole.							
			Ini	tial Respor	ise				
	f the relea	ase has been stop	oped.						
		been secured to	•						
						orbent pad, or oth ged appropriately.	ner containment devices		
7 III nee nqui	as and rec		and have bee	ii i ciiio veu alle	1114114	——————————————————————————————————————			

Previously submitted portions of the New Mexico Oil Conservation Division (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 ARWMS Deer Booster 82623 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?	>115'
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 ARWMS Deer Booster 82623 release site are as follows:

Probable Depth to Groundwater	('onstituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
Total Petroleum Hydrocarbons (TPH)		EPA SW-846 Method 8015M Ext	2,500	100
>115'	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	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

^{*} Measured in milligrams per kilogram (mg/kg)

[†] Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

[‡] 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 September 5, 2023, remediation activities commenced at the ARWMS Deer Booster 82623 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 September 7, 2023, Etech collected six (6) confirmation soil samples (EW 1, SW 1, WW 1, FL #1 @ 3 Ft, FL #2 @ 4 Ft, and FL #3 @ 2 Ft) 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, 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. Chloride concentrations ranged from 64.0 mg/kg in soil samples EW 1 and SW 1 to 592 mg/kg in soil sample FL #1 @ 3 Ft.

On September 8, 2023, Etech collected nine (9) confirmation soil samples (EW 2, WW 2, and FL #4 @ 3 Ft through FL #10 @ 4 Ft) 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. Chloride concentrations ranged from 32.0 mg/kg in soil sample FL #5 @ 2 Ft to 272 mg/kg in soil sample EW 2.

On September 11, 2023, Etech collected six (6) confirmation soil samples (NW 1, NW 2, EW 3, SW 2, WW 3, and FL #11 @ 3 Ft) 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. Chloride concentrations ranged from less than the laboratory MDL in soil sample EW 3 to 224 mg/kg in soil sample FL #11 @ 3 Ft.

On September 13, 2023, Etech collected 11 confirmation soil samples (NW 3, SW 3, and FL 12 @ 1 through FL 20 @ 1 1/2) 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. Chloride concentrations ranged from 160 mg/kg in soil samples SW 3 and FL 12 @ 1 to 240 mg/kg in soil sample FL 19 @ 1 1/2.

The final dimensions of the excavated area were approximately 474 feet in length, six (6) to 58 feet in width, and one (1) to four (4) feet in depth. During the course of remediation activities, Etech transported approximately 580 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 580 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 is 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 ARWMS Deer Booster 82623 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

(Electronic Submission)

Figure 1 Topographic Map

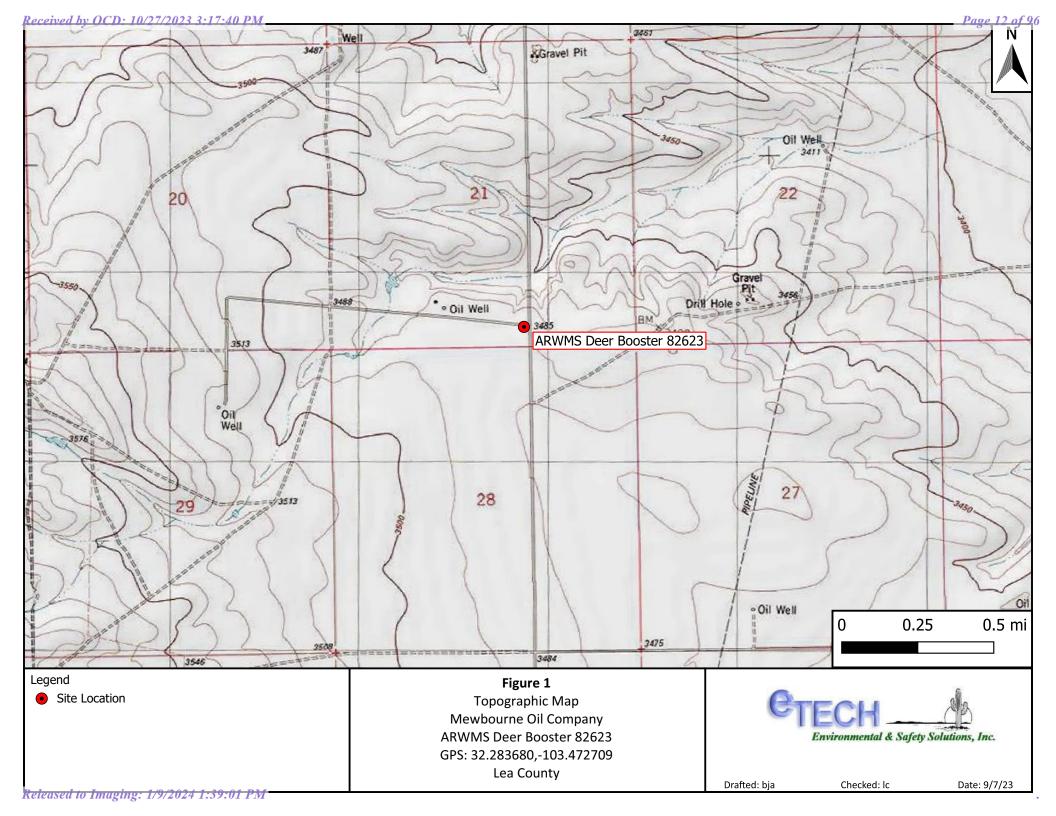


Figure 2 Site Characterization Map

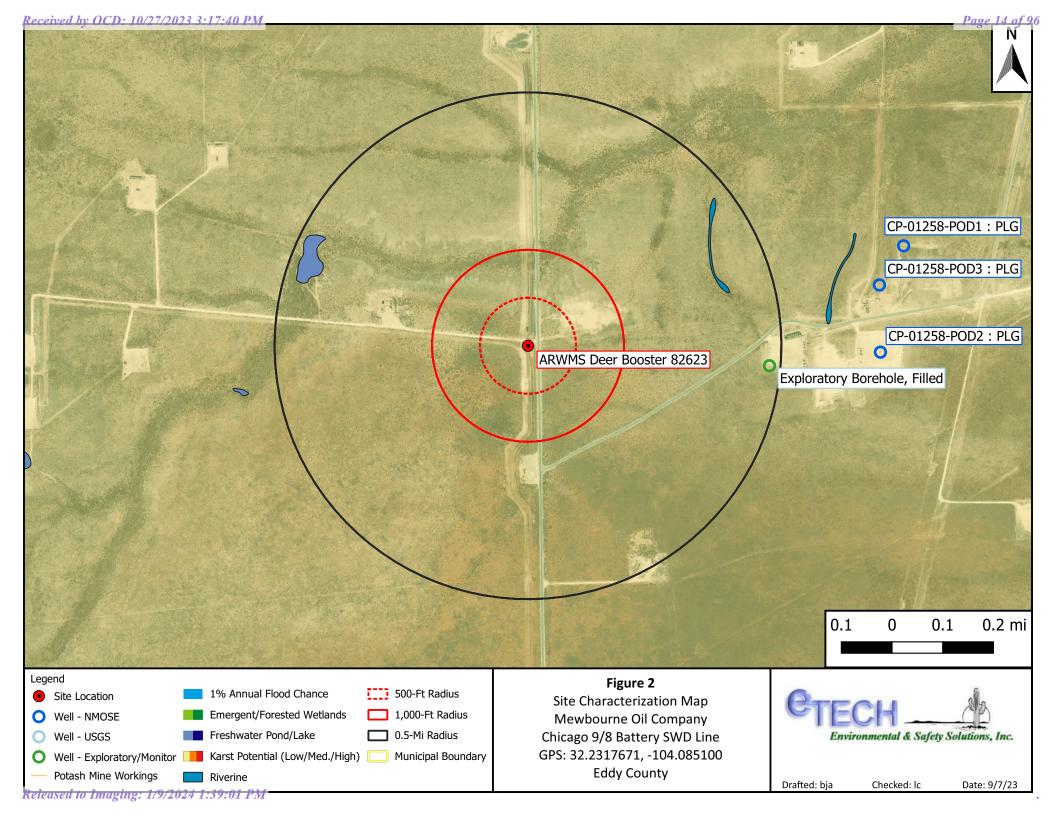


Figure 3 Site & Sample Location Map

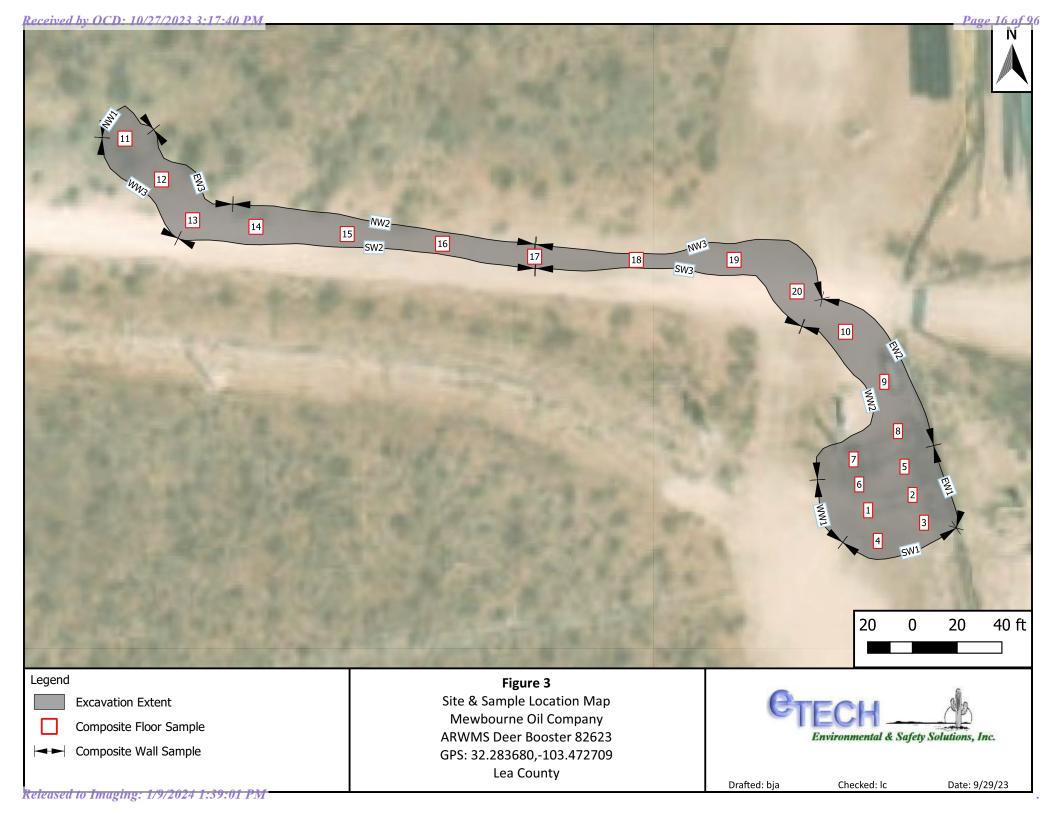


Table 1 Concentrations of BTEX, TPH & Chloride in Soil

	Table 1										
Concentrations of BTEX, TPH & Chloride in Soil											
Mewbourne Oil Company											
ARWMS Deer Booster 82623											
NMOCD Ref. #: nAPP2325141309											
									20,000		
NMOCD F	Reclamation Sta	andard		10	50	N/A	N/A	N/A	N/A	100	600
				SW 84	6 8021B		SW	846 8015M	Ext.	-	4500 CI
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NW 1	9/11/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0
NW 2	9/11/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	80.0
NW 3	9/13/2023	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	192
EW 1	9/7/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	64.0
EW 2	9/8/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	272
EW 3	9/11/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 1	9/7/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 2	9/11/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW 3	9/13/2023	0-1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW 1	9/7/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW 2	9/8/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WW 3	9/11/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #1 @ 3 Ft	9/7/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FL #2 @ 4 Ft	9/7/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL #3 @ 2 Ft	9/7/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL #4 @ 3 Ft	9/8/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #5 @ 2 Ft	9/8/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL #6 @ 3 Ft	9/8/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #7 @ 1 Ft	9/8/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL #8 @ 2 1/2 Ft	9/8/2023	2.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #9 @ 2 Ft	9/8/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #10 @ 4 Ft	9/8/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL #11 @ 3 Ft	9/11/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 12 @ 1	9/13/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 13 @ 1	9/13/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 14 @ 3	9/13/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 15 @ 1	9/13/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 16 @ 1 1/2	9/13/2023	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 17 @ 1 1/2	9/13/2023		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 18 @ 1	9/13/2023		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 19 @ 1 1/2	9/13/2023	1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
TT 20 0 1 1 /2	0/40/0000										

< 0.050

< 0.300

<10.0

<10.0

< 20.0

<10.0

< 30.0

208

In-Situ

9/13/2023

FL 20 @ 1 1/2

Appendix A Depth to Groundwater Information



Soil Boring/Temporary Monitor Well SB-1

Client: Mewbourne Oil Company Site: ARWMS Deer Booster

NMOCD Reference #: nAPP2236030437

Location: Lea Co., NM

PLSS: U/L "O", Sec. 21, T23S, R34E

Well/Borehole ID: SB-1

Coordinates (NAD 83): 32.28301,-103.46458

Drilling Date: 1/19/2023 Depth of Boring (ft): 115 Depth to Groundwater (ft): N/A Drilling Company: Ready Drill, LLC

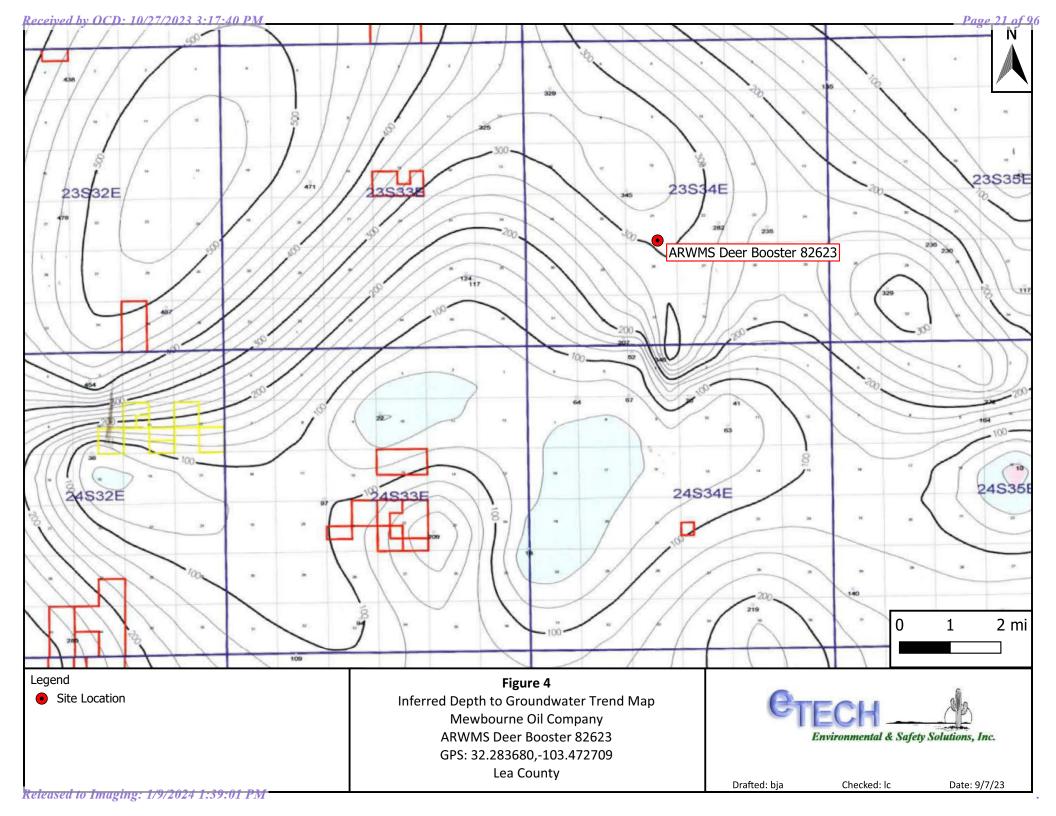
Driller: Ready Drill, LLC
Drilling Method: Air Rotary
Logged By: Ready Drill, LLC
Drafted By: B.J. Arguijo

Completion: N/A Casing: N/A Screen: N/A

Comments: Soil boring was advanced in the southwest corner of the nearby Gazelle 22 B3MD Federal Com #001H/002H location.

Depth (ft)	Groundwater	Lithology	Material Description	Chloride Field Test	Lab Result	PID Reading	Well Construction
- 10 - 20 - 30 - 40 - 50			Caliche Caliche Caliche				
- 60 - 70 - 80		000000000000000000000000000000000000000	Sand	-	- - - -	- - - -	Open hole. No casing installed
- 90 			Soft sandstone	-	- - -	- - - -	
- 110 			Notes:	-	-	-	
- 120 - 130 - 130 - 140			 Total Depth = 115 feet below ground surface (bgs) Lines between material types represent approximate boundaries. Actual transitions may be gradual. Due to the non-cohesive nature of the soil at lower depths, water was injected beginning at approximately 22 feet bgs to prevent collapse of the borehole. 				
- - -							

Disclaimer This bore log is intended for environmental not geotechnical purposes.





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,

closed)

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD Sub-		Q	Q	Q								Water
POD Number	Code	basin	County	64	16	4 S	ec T	Tws	Rng	X	Υ	DistanceDep	thWellDepthV	VaterColumn
CP 01258 POD2		CP	LE	1	4	3 2	22 2	23S	34E	644941	3572883 🌍	1119	65	
CP 01258 POD3		CP	LE	1	4	3 2	22 2	23S	34E	644938	3573097	1132	25	
CP 01258 POD1		CP	LE	1	4	3 2	22 2	23S	34E	645015	3573221 🌕	1234	25	

Average Depth to Water:

Minimum Depth: -Maximum Depth: --

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 643822.23 **Northing (Y):** 3572904.16 **Radius:** 1610

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.

9/29/23 3:25 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

 \mathbf{X}

CP 01258 POD1

Q64 Q16 Q4 Sec Tws Rng 22 23S 34E

645015 3573221

Driller License: 1711

Driller Company:

STRAUB CORPORATION

Driller Name:

BRYAN, EDWARD (LD)

12/04/2013

Drill Finish Date:

12/04/2013

Plug Date:

Drill Start Date: Log File Date:

12/23/2013

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well: 25 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, usability, or suitability for any particular purpose of the data.

12/14/22 8:03 AM

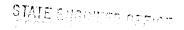
POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us



MO 142 23 P 1: 35

·										
	1	UMBER (WELL	*				OSE FILE NU	MBER(S)		
ON	(POD1)	SIANA CUR	RRY FED #2 SWD	SB-1			CP-1258			
\TI	WELL OWN	IER NAME(S)					PHONE (OPTI	IONAL)		
) ()	SIANA O	IL AND GA	S CO,LLC				}			
נו	WELL OWN	ER MAILING A	ADDRESS				CITY		STATE	ZIP
EL	601 N M	ARIENFELC), SUITE 300				MIDLAND	1	TX 7970	1
*			DEGREES	MINUTES	S SECONI	50				
NA	WELL	1	_ 32	17	s seconi		* * * * * * * * * * * * * * * * * * * *	(DECUMEN OVE TEN	THAT I RECOVE	
AL.	LOCATIO	LATT	TUDE			N	4	Y REQUIRED: ONE TEN	TH OF A SECOND	
GENERAL AND WELL LOCATION	(FROM G	PS) LONG	GITUDE 103	27	36	W	DATUM KE	QUIRED: WGS 84		
EN	DESCRIPTIO	N RELATING WE	LL LOCATION TO STREE	T ADDRESS AND COMM	ON LANDMARKS - PLS	S (SECTION, TO	OWNSHJIP, RANC	GE) WHERE AVAILABLE		
) .	FROM CO	O RD 21B G	O ENE .7TH ON	E-21 TO SITE OF	N L. NMNM- 996	58, SW/4 S	SEC 22, T23	S-R34E N32.286	W 103.461	
	LICENSE N	UMBER	NAME OF LICENSED	DRILLER				NAME OF WELL DR	ILLING COMPANY	
	WD-1711	1	EDWARD BRYA	٧				STRAUB CORPO	ORATION	
	DRILLING S	STARTED	DRILLING ENDED	DEPTH OF COMPLET	TED WELL (FT)	BORE HOL	LE DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED (FT)	
	12-4-13	12	2-4-13	0		25'		N/A		
						1		STATIC WATER LE	VEL IN COMPLETED WE	LL (FT)
_	COMPLETE	D WELL IS- (ARTESIAN	ORY HOLE	SHALLOW (UNC	ONFINED)		N/A		
NO.										
ΙΑΤ	DRILLING F			MUD	ADDITIVES - SPI	ECIFY:			·······	
Z.	DRILLING N	METHOD: (ROTARY	C HAMMER C	CABLE TOOL	ОТНЕ	R - SPECIFY.			
NF0	DEPTH	(feet bgl)	BORE HOLE	CASING MATE	ERIAL AND/OR		ASING	CASING	CASING WALL	SLOT
U	FROM	TO	DIAM		ADE		NECTION	INSIDE DIAM	THICKNESS	SIZE
SIN			(inches)		asing string, and as of screen)	T	YPE	(inches)	(inches)	(inches)
DRILLING & CASING INFORMATION	0	25'	5"	N/A		N/A		N/A	N/A	N/A
اود										
RIL	_		1							
2. D						1				
						<u> </u>				
		 						-	<u> </u>	
		 						1		
							W. L			-
							~			
	D.C.D.	(Face)	1				ND		1	
, 1		(feet bgl)	BORE HOLE DIAM. (inches)	ł	INULAR SEAL MANGE			AMOUNT (cubic feet)	METHO PLACEN	
IAI	FROM	TO	`		PACK SIZE-RANG	EBYINIE	KVAL	(cubic feet)		LIVI
ER	0	2'	5"	.5 OF CONCRE					TOPLOAD	
Į.	2'	25'	5"	6 BAGS OF 3/8	HOLEPLUG				TOPLOAD	
ANNULAR MATERIAL										
OLA U										
ž										
3. A										
'''			+					 		
		L		L						
	OSE INTER				DOD MIMDED	<u>i</u>			& LOG (Version 06/0	8/2012)
	NUMBER	×	-1258		POD NUMBER			NUMBER 53	36561	
LOC	ATION /	non			235.	34F	22.3	341	PAGE	1 OF 2

	DEPTH (feet bgl)	THICKNESS	COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER BEARING?	ESTIMATED YIELD FOR
	FROM	ТО	(feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	(YES / NO)	WATER- BEARING ZONES (gpm)
	0	3'	3'	TAN VERY FINE SAND - CLAICHE - CEMENT SANDSTONE	CYGN	N/A
	3'	25'	22'	TAN VERY FINE WELL SORTED SAND	CYGN	N/A
	TD	25'			C Y (: N	
					C Y (; N	
					C Y (, N	
Į,					C Y (. N	
WEI					C Y , N	
OF					C Y (N	
507					C Y (, N	
3101					C Y ('. N	
007					C Y (. N	
HYDROGEOLOGIC LOG OF WELL					$C^{Y} \subset N$	
)RO					CY (N	
HYI					C Y (N	
4					$C^{Y} \subset N$	
					C^{Y}	
					C^{Y}	
:					$\subset Y \bullet \subset N$	
					$C^{Y} C^{N}$	
					C^{Y}	
					$C^{Y} C^{N}$	
	METHOD U	SED TO ES	TIMATE YIELD	`	OTAL ESTIMATED	
	C AIR LIF	r ()	BAILER (OTHER - SPECIFY:	WELL YIELD (gpm):	
NO	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER		
ERVISION	MISCELLA	NEOUS INF	ORMATION:			
PER	SOIL BOR	ING ONLY	'- SOIL BORIN	G WAS PLUGGED AND ABANDONED UPON COMPLETION OF	SAMPLING.	
e st	LEA COU	NTY, NM.				
TEST; RIG SUP						
rest	PRINT NAN	ME(S) OF DI	RILL RIG SUPER	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONST	RUCTION OTHER TH	IAN LICENSEE:
'n						
6. SIGNATURE	CORRECT I	RECORD OF	F THE ABOVE D	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL REC 20 DAYS AFTER COMPLETION OF WELL DRILLING:		
SNA	10	, 2			((-7	
5. SI	_	A B	7	Elwhed Bryan 12 er / Print signee name	-18-13	
		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE NAME	DATE	
FOF	OSE INTER	NAL USE		WR-20 WELL	RECORD & LOG (Ve	rsion 06/08/2012)

POD NUMBER

TRN NUMBER

PAGE 2 OF 2

FILE NUMBER

LOCATION



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

(gastern are 1-NW 2-NB 3-8W 4-9E)

(marriers are emailes to largest)

(NADAS TIDA (A MARIY)

Well The POD Number CP 01258 POD2 Q64 Q16 Q4 Sec Twe Reg 3 22 238 34B

644941 3572883

Dellar Licenses 1711

Driller Company:

STRAUB CORPORATION

Driffer Name:

HRYAN, EDWARD (LD)

Drill Start Date:

12/04/2013

Drill Whileh Date:

12/04/2013

Ples Date:

Log File Date:

12/23/2013

PCW Rey Date

SOUTHE

Famp Type:

Pipe Discharge Stars

Rationated Yield:

Cooling Steet

Depth Wall:

65 frest

Depth Water:

The data in familiard by the NMOSE/INC and is accepted by the expirient with the regional understanding that the CHIVIEC make no secremina, experiend or implied, continued to implicit, continued to implicit, continued to implicit purpose of the data.

12/14/22 8:03 AM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE EXPENSES OF FIRST

13 PBC 23 P 1: 35

DEFTI SAMPLE DEFTI STATE DEFTI STATE DEFTI DEF											
FROM CO RD 218 GO ENE .7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461		Ì	,	•				1	MBER(S)		
FROM CO RD 218 GO ENE .7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461	<u>0</u>	! ` '		RY FED #2 SWD	SB-2			· ·			
FROM CO RD 218 GO ENE .7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461	AT	1						PHONE (OPTI	ONAL)		
FROM CO RD 218 GO ENE .7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461	ŏ	,									
FROM CO RD 218 GO ENE .7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461	7										
FROM CO RD 218 GO ENE .7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461	¥	BUT IN INIA	AKIENFELD	, SUITE 300				MIDLAND		IX /9/0	j
FROM CO RD 218 GO ENE .7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461	9	WELL		DEGREES	MINUTES	S SECONI	OS .	<u>' </u>			
FROM CO RD 218 GO ENE .7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461	¥	1	N LATIT	32 June 32	17	07	N	* ACCURACY	REQUIRED: ONE TENT	TH OF A SECOND	
FROM CO RD 218 GO ENE .7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461	₹	}	1 2:		27	30	w	* DATUM RE	QUIRED: WGS 84		
FROM CO RD 218 GO ENE .7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461	N.										
LICENSE NUMBER WD-1711 PORTLING STARTED DEPTH OF COMPLETED WELL (FT) OF STRAUB CORPORATION STRAUB CORPORATION DEPTH WATER FIRST ENCOUNTERED (FT) N/A STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A STATIC WATE	5										
WD-1711 EDWARD BRYAN STRAUB CORPORATION STRAUB CORPORATION DEPTH WATER FIRST ENCOUNTERED (FT) N/A COMPLETED WELL IS ARTESIAN PLOY DEPTH OF COMPLETED WELL (FT) 65' COMPLETED WELL IS ARTESIAN PLOY DEPTH OF COMPLETED WELL (FT) N/A DRILLING FLUID PROTECTION OF ROTARY AND ADDITIVES - SPECIFY DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE HOLE GRADE (include each casing string, and not sections of screen) DEPTH (Feet bgl) BORE		FROM CC) RD 21B G	O ENE .7TH ON	E-21 TO SITE ON	1 L. NMNM- 996	58, SW/4 S	SEC 22, T23	5-R34E N32.286 V	V 103.461	
WD-1711 EDWARD BRYAN STRAUB CORPORATION STRAUB CORPORATION DRILLING STARTED 12-4-13 DRILLING STARTED 12-4-13 DRILLING FLID COMPLETED WELL IS ARTESIAN DRILLING FLID ROBER HOLE SHALLOW (IINCONFINED) DRILLING FLID ROBER HOLE STATIC WATER FIRST ENCOUNTERED (FT) N/A STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A DRILLING FLID ROBER HOLE DEPTH (Feet bgl) DRILLING FLID BORE HOLE GRADE (include each casing string, and not sections of screen) DIAM (inches) DIAM (inches) DIAM (inches) DEPTH (Feet bgl) DEPTH (Feet bgl) DEPTH (Feet bgl) DEPTH (Feet bgl) DIAM (inches) DIAM (LICENSE NU	JMBER	NAME OF LICENSED	DRILLER				NAME OF WELL DR	ILLING COMPANY	
12-4-13			1								
12-4-13		DRILLING S	TARTED	DRILLING ENDED	DEPTH OF COMPLET	FD WELL (FT)	BORE HOL	E DEPTH (ET)	DEPTH WATER FIR	ST ENCOUNTERED (ET)	
OMPLETED WELL IS C ARTESIAN © DRY HOLE C SHALLOW (UNCONFINED) PRILLING FLUID © AIR C MUD ADDITIVES - SPECIFY DEPTH (Feet bg) TO DIAM (inches) DIAM (25 (11)	1	20 20 117(11)	I .	, prieserii ziaz (i i)	
OMPLETED WELL IS C ARTESIAN © DRY HOLE C SHALLOW (UNCONFINED) PRILLING FLUID © AIR C MUD ADDITIVES - SPECIFY DEPTH (Feet bg) TO DIAM (inches) DIAM (<u> </u>		STATIC WATER LEV	FI IN COMPLETED WE	II (FT)
PRILLING FLUID		COMPLETED	WELL IS.	ARTESIAN	ORYHOLE (SHALLOW (UNC	ONFINED)			EE IN COMI EE TED WE	DE (+ 1)
DEPTH (feet bgl) FROM TO O 2' 5" 5-S OF CONCRETE TOPLOAD	NO										
DEPTH (feet bgl) FROM TO O 2' 5" 5-S OF CONCRETE TOPLOAD	ATI	DRILLING F	LUID: (AIR	MUD	ADDITIVES - SPI	ECIFY:				
DEPTH (feet bgl) FROM TO O 2' 5" 5 BAGS OF 3/8 HOLEPLUG FOR OSE INTERNAL USE DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) METHOD OF PLACEMENT TOPLOAD TOPLOAD TOPLOAD WR-20 WELL RECORD & LOG (Version 06/08/2012)	RM	DRILLING M	ETHOD:	ROTARY	C HAMMER C	CABLE TOOL	ОТНЕ	R - SPECIFY			
DEPTH (feet bgl) FROM TO O 2' 5" 5 BAGS OF 3/8 HOLEPLUG FOR OSE INTERNAL USE DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) METHOD OF PLACEMENT TOPLOAD TOPLOAD TOPLOAD WR-20 WELL RECORD & LOG (Version 06/08/2012)	FO	DEPTH	(feet bgl)	PORE HOLE	CASING MATE	ERIAL AND/OR	T		CASING		T
DEPTH (feet bgl) FROM TO O 2' 5" 5-S OF CONCRETE TOPLOAD	4			1	,)	1
DEPTH (feet bgl) FROM TO O 2' 5" 5 BAGS OF 3/8 HOLEPLUG FOR OSE INTERNAL USE DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) METHOD OF PLACEMENT TOPLOAD TOPLOAD TOPLOAD WR-20 WELL RECORD & LOG (Version 06/08/2012)	Ĭ.			1			1		1	}	1
DEPTH (feet bgl) FROM TO O 2' 5" 5 BAGS OF 3/8 HOLEPLUG FOR OSE INTERNAL USE DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) METHOD OF PLACEMENT TOPLOAD TOPLOAD TOPLOAD WR-20 WELL RECORD & LOG (Version 06/08/2012)	S		- =1		ļ	is of screen)			1	N1/A	1./2
DEPTH (feet bgl) FROM TO O 2' 5" 5 BAGS OF 3/8 HOLEPLUG FOR OSE INTERNAL USE DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) METHOD OF PLACEMENT TOPLOAD TOPLOAD TOPLOAD WR-20 WELL RECORD & LOG (Version 06/08/2012)	જ	0	65.	5"	N/A		N/A		N/A	N/A	N/A
DEPTH (feet bgl) FROM TO O 2' 5" 5 BAGS OF 3/8 HOLEPLUG FOR OSE INTERNAL USE DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) METHOD OF PLACEMENT TOPLOAD TOPLOAD TOPLOAD WR-20 WELL RECORD & LOG (Version 06/08/2012)	Ž						<u> </u>				
DEPTH (feet bgl) FROM TO O 2' 5" 5 BAGS OF 3/8 HOLEPLUG FOR OSE INTERNAL USE DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) METHOD OF PLACEMENT TOPLOAD TOPLOAD TOPLOAD WR-20 WELL RECORD & LOG (Version 06/08/2012)	1						 				ļ
DEPTH (feet bgl) FROM TO O 2' 5" 5 BAGS OF 3/8 HOLEPLUG FOR OSE INTERNAL USE DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) METHOD OF PLACEMENT TOPLOAD TOPLOAD TOPLOAD WR-20 WELL RECORD & LOG (Version 06/08/2012)	DR						ļ			!	
FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEMENT	7						<u> </u>				
FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEMENT											
FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEMENT											
FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEMENT]										
FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEMENT						····	ļ				
FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEMENT											
FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEMENT		DEPTH	(feet bgl)	BORE HOLE	LIST AN	NULAR SEAL MA	ATERIAL A	ND	AMOUNT	метно	D OF
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)	4	FROM	TO		GRAVELP	ACK SIZE-RANG	E BY INTE	RVAL	(cubic feet)		
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)	RI			5"	5 OF CONCRE	TF				TOPLOAD	
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)	VTE									1	
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)	Ž			-	3 BAG3 O1 3/6					TOTLOAD	
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)	AR			-			·				
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)	5										
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)	AN										
	٠.										
	1			L				· · · · · · · · · · · · · · · · · · ·	<u> </u>		
FILE NUMBER (10 1000) POD NUMBER 2 TRN NUMBER 626691	FOR	OSE INTER	NAL USE					WR-2	0 WELL RECORD &	& LOG (Version 06/0	8/2012)
The Holling Parish	FILE	NUMBER	(P-	1258		POD NUMBER	2	TRN 1	NUMBER 530	9581	
LOCATION MON 235.34E.22.341 PAGE 1 OF 2	LOC	ATION			2			341			1 OF 2

	DEPTH (feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	ESTIMATED YIELD FOR
,			THICKNESS	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES	BEARING?	WATER-
	FROM	ТО	(feet)	(attach supplemental sheets to fully describe all units)	(YES / NO)	BEARING ZONES (gpm)
	0	3'	3'	CALICHE - TAN VERY FINE SAND - SANDSTONE	C Y 6 N	N/A
	3'	7'	4'	TAN VERY FINE SAND - CEMENT SANDSTONE	CYGN	N/A
	7'	65'	58'	TAN VERY FINE WELL SORTED SAND	CYGN	N/A
	TD	65'	1-30	TAN VERT THE WELL SONTED SAND	C Y © N	
		03			C Y G N	
		-				
TT					$\bigcap Y \bigcap N$	
4. HYDROGEOLOGIC LOG OF WELL		ļ			CYCN	
0.5					$CY \cap N$	
07					$C_A C_N$	
Cic					C Y (: N	
07					CYCN	
)EO					$C^{Y} \subset N$	
ROC					CYGN	
[AZ]					CYCN	
4.1	<u> </u>		<u> </u>		C Y (N	
			 		CYCN	
	<u> </u>		 		CYCN	
			+		CY. CN	
		ļ			CYCN	
			 			
		ļ			, ,	
					CYCN	
Ì				,	TOTAL ESTIMATED WELL YIELD (gpm):	
	C AIR LIF	т С	BAILER (OTHER - SPECIFY:	WEEE TIEED (gpiii).	
	WELL TES			FACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCL		
ERVISION		STAR	RT TIME, END TI	ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER	R THE TESTING PERIC	DD.
VIS	MISCELLA	NEOUS IN	FORMATION:			
PER	SOIL BOR	ING ONL	Y - SOIL BORIN	IG WAS PLUGGED AND ABANDONED UPON COMPLETION O	F SAMPLING.	
ns s	LEA COU	NTY, NM.				
₩						
TEST; RIG SUPI	PRINT NA	ME(S) OF D	DRU L RIG SUPE	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS	TRUCTION OTHER TH	IAN LICENSEE
5. TJ	Tidivi ion		AGE ING SOLE	(AVISON(S) THAT THE VIBES CHARLES OF BRAINSON OF WEED CONC	TROCKON GILLER II	E II V E I C E I V C E E
	THE UNDE	RSIGNED	HEREBY CERTII	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIE	F, THE FOREGOING IS	S A TRUE AND
RE				DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RE 20 DAYS AFTER COMPLETION OF WELL DRILLING:	CORD WITH THE STA	TE ENGINEER
5	AND THE	EKMIT IK	DEDEK WITHIN .	20 DATS AT TEX COMPLETION OF WELL DIVIDENCE.		
SIGNATURE	1	OR	7		n 10 12	
6. SI	1	of dh	*	CAWARD DIRIYAN	2-18-13	
		SIGNAT	f∯re of drilli	ER / PRINT SIGNEE NAME	DATE	
EO	D OCE INITED	NIAL LICE		WD 20 WEL	L RECORD & LOG (Ve	reion 06/08/2012)
	R OSE INTER	NAL USE		DOD NUMBER TRN NUMBER		151011 00/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION			PAGE 2 OF 2

Well The



New Mexico Office of the State Engineer Point of Diversion Summary

(gastern are 1-NW 2-NB 3-8W 4-9E)

(marriers are emailes to largest)

Q64 Q16 Q4 Sec Two Reg

(NADAS TIDA in many)

CP 01258 POD3

POD Number

3 22 238 34E

644938 3573097

Dellar Licenses 1711

Driller Company:

STRAUB CORPORATION

Driffer Name:

HRYAN, EDWARD (LD)

12/04/2013 Drill Start Date:

Drill Whileh Date:

12/04/2013

Ples Date:

Log File Date:

12/23/2013

PCW Rey Date

SOUTHE

Famp Type:

Pipe Discharge Stars

Rationated Yield:

Cooling Steet

Depth Wall:

25 feet

Depth Water:

The data in familiard by the NMOSE/INC and is accepted by the expirient with the regional understanding that the CHIVIEC make no secremina, experiend or implied, continued to implicit, continued to implicit, continued to implicit purpose of the data.

12/14/22 8:03 AM

POINT OF DIVERSION SUMMARY



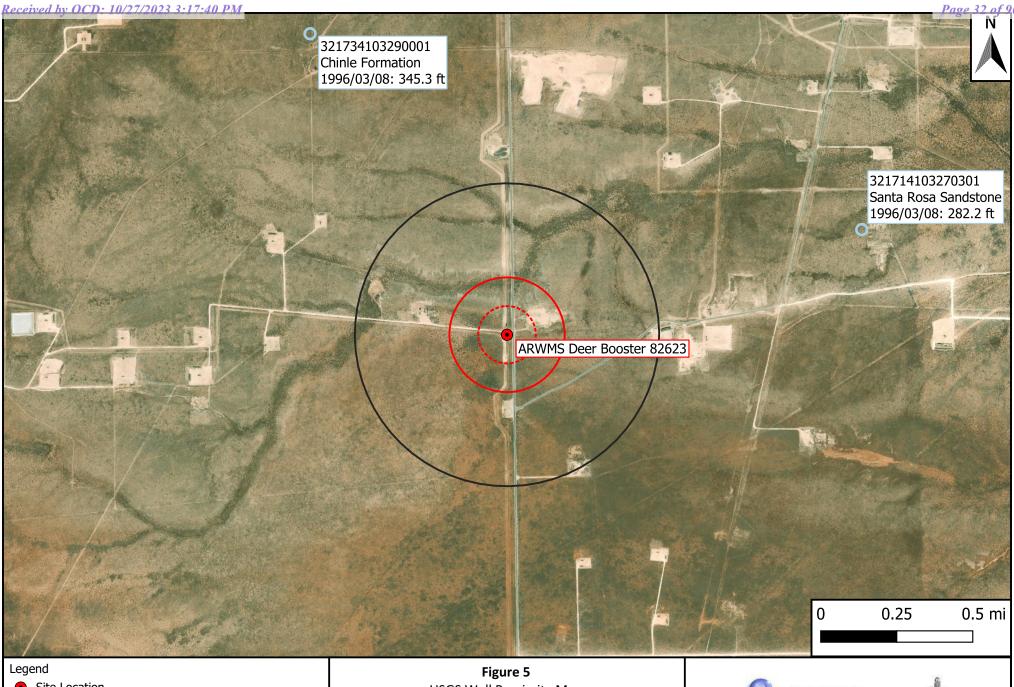
WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER OFFICE

www.ose.state.nm.us

OR FIGURAL STATE CONTRIBUTION							13.1	OFC 23	P 1: 35		
MIDLAND TX 79701		OSE POD N	JMBER (W	ELL NUMBER)			- International	OSE FILE NU	MBER(S)		
MIDLAND TX 79701	O) .	_		O SB-3			1			
MIDLAND TX 79701	, V	(, ,				PHONE (OPTI	IONAL)		
TOP CONTRICTION CONTRICT	07	ĺ									
TENDEN CORD 218 GO ENE . 7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461 LETINES NUMBER WD-1711 RAME OF INCREMENT BUILDER EDWARD BRYAN STRAUB CORPORATION STRAUB CORPORATION STRAUB CORPORATION N/A STRAUB CORPORATION N/A COMPLETED WELL IS DRELING STARTED DRELING STARTED 12-4-13 12-4-13 DRELING STARTED STARTED WAS FRIST EXCOUNTERED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED	17							1	,		
TENDEN CORD 218 GO ENE . 7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461 LETINES NUMBER WD-1711 RAME OF INCREMENT BUILDER EDWARD BRYAN STRAUB CORPORATION STRAUB CORPORATION STRAUB CORPORATION N/A STRAUB CORPORATION N/A COMPLETED WELL IS DRELING STARTED DRELING STARTED 12-4-13 12-4-13 DRELING STARTED STARTED WAS FRIST EXCOUNTERED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED	WE										
TENDEN CORD 218 GO ENE . 7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461 LETINES NUMBER WD-1711 RAME OF INCREMENT BUILDER EDWARD BRYAN STRAUB CORPORATION STRAUB CORPORATION STRAUB CORPORATION N/A STRAUB CORPORATION N/A COMPLETED WELL IS DRELING STARTED DRELING STARTED 12-4-13 12-4-13 DRELING STARTED STARTED WAS FRIST EXCOUNTERED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED	4ND	WELL					DS				
TENDEN CORD 218 GO ENE . 7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461 LETINES NUMBER WD-1711 RAME OF INCREMENT BUILDER EDWARD BRYAN STRAUB CORPORATION STRAUB CORPORATION STRAUB CORPORATION N/A STRAUB CORPORATION N/A COMPLETED WELL IS DRELING STARTED DRELING STARTED 12-4-13 12-4-13 DRELING STARTED STARTED WAS FRIST EXCOUNTERED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED	AL.		<u> </u>	ATITUDE	·			-{		TH OF A SECOND	
TENDEN CORD 218 GO ENE . 7TH ON E-21 TO SITE ON L. NMNM-9968, SW/4 SEC 22, T23S-R34E N32.286 W 103.461 LETINES NUMBER WD-1711 RAME OF INCREMENT BUILDER EDWARD BRYAN STRAUB CORPORATION STRAUB CORPORATION STRAUB CORPORATION N/A STRAUB CORPORATION N/A COMPLETED WELL IS DRELING STARTED DRELING STARTED 12-4-13 12-4-13 DRELING STARTED STARTED WAS FRIST EXCOUNTERED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WELL IN COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED WELL IT IN NICONSTITUTED THE COMPLETED WAS AND THE COMPLETED	KER	(FROM G	PS)	ONGITUDE 103	27	39 	W	DATESTRE	COURED WGS 84		
DEPTH (Feet by)	GE	DESCRIPTIO	N RELATING	WELL LOCATION TO STRE	ET ADDRESS AND COMM	ION LANDMARKS - PL	SS (SECTION, T	OWNSHJIP, RANG	GE) WHERE AVAILABLE		
WD-1711 EDWARD BRYAN RETHORD OF PRINCE ON PLETE OF THE PROPERTY OF THE PROPER	-	FROM CO	DRD 21	B GO ENE .7TH ON	NE-21 TO SITE OF	N L. NMNM- 996	68, SW/4 S	SEC 22, T23	S-R34E N32.286 \	W 103.461	
DRILLING STARTED 12-4-13 12-4-13 0 DEPTH OF COMPLETED WELL IFTT 13-4-13 12-4-13 12-4-13 0 DEPTH OF COMPLETED WELL IFTT 13-4-13 12-4-		LICENSE N	JMBER	NAME OF LICENSE	D DRILLER				NAME OF WELL DR	ILLING COMPANY	
THE PART OF THE PA		WD-1711		EDWARD BRYA	N.				STRAUB CORPO	DRATION	
TOMPLETED WELL IS C ARTESIAN PAYOLE C SHALLOW (UNCONFINED) N/A DRILLING FLUID AIR MUD ADDITIVES - SPECIFY DEPTH (feet bgl) BORE HOLE DIAM (inches) (include each casing string, and note sections of scizen) TYPE (inches) (inche		1	TARTED		l .	TED WELL (FT)	1	LE DEPTH (FT)		ST ENCOUNTERED (FT)
COMPLETED WELL IS C ARTESIAN PORY HOLE C SHALLOW (UNCONFINED) N/A DRILLING FLUID		12-4-13		12-4-13	0		25'		N/A		
PROBLING FLUID PROBLING FLUID PROBLEM TO PROBLEM TO DIAM (inches) BORE HOLE (include each casing string, and noise sections of screen) PROBLEM TO DEPTH (feet bgl) DEP	,	COMPLETE	D WELL VE	ABTOLAN	6 paydole (CHALLOW (UNC	OVENUED		İ	VEL IN COMPLETED WI	ELL (FT)
POR OSE INTERNAL USE THE NUMBER POD NUMB	20	COMPLETE	D WELL 19	AKIESIAN		SHALLOW (UNC			IN/A		
POR OSE INTERNAL USE THE NUMBER POD NUMB	ATI	DRILLING F	LUID	♠ AIR	MUD	ADDITIVES - SP	ECIFY				
POR OSE INTERNAL USE THE NUMBER POD NUMB)RM	DRILLING N	VETHOD.	₩ ROTARY	C HAMMER C	CABLE TOOL	ОТНЕ	R - SPECIFY			
POR OSE INTERNAL USE THE NUMBER POD NUMB	N.F.C	DEPTH	(feet bgl)	BORE HOLE			C/	\SING	CASING	CASING WALL	SLOT
POR OSE INTERNAL USE THE NUMBER POD NUMB	ZG.	FROM	TO	1	1		CONI	VECTION	1	1	SIZE
POR OSE INTERNAL USE THE NUMBER POD NUMB	ASI			(inches)			,	1PE	(inches)	(inches)	(menes)
DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL O 2' S" S OF CONCRETE TOPLOAD FOR OSE INTERNAL USE FOR OSE INTERNAL USE FILE NUMBER POD NUMBER TRN NUMBER FALSE TRN NUMBER FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) TOPLOAD TOPLOAD TOPLOAD TOPLOAD	8	0	25'	5"	N/A		N/A		N/A	N/A	N/A
DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL O 2' S" S OF CONCRETE TOPLOAD FOR OSE INTERNAL USE FOR OSE INTERNAL USE FILE NUMBER POD NUMBER TRN NUMBER FALSE TRN NUMBER FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) TOPLOAD TOPLOAD TOPLOAD TOPLOAD	ING						ļ		ļ		
DEPTH (feet bgl) BORE HOLE GRAVEL PACK SIZE-RANGE BY INTERVAL O 2' S" S OF CONCRETE TOPLOAD FOR OSE INTERNAL USE FOR OSE INTERNAL USE FILE NUMBER POD NUMBER TRN NUMBER FALSE TRN NUMBER FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) TOPLOAD TOPLOAD TOPLOAD TOPLOAD	ar.						+			 	
DEPTH (feet bgl) FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL TO Coubic feet) TOPLOAD TOPLOAD FOR OSE INTERNAL USE FILE NUMBER POD NUMBER TRIN NUMBER FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEMENT TOPLOAD	. DF						-		-		
FOR OSE INTERNAL USE FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEMENT TOPLOAD TOPLOAD TOPLOAD TOPLOAD WR-20 WELL RECORD & LOG (Version 06/08/2012) FILE NUMBER (P-1358) POD NUMBER 3 TRN NUMBER 3-36-8-1							 			 	
FOR OSE INTERNAL USE FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEMENT TOPLOAD TOPLOAD TOPLOAD TOPLOAD WR-20 WELL RECORD & LOG (Version 06/08/2012) FILE NUMBER (P-1358) POD NUMBER 3 TRN NUMBER 3-36-8-1							 				1
FOR OSE INTERNAL USE FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEMENT TOPLOAD TOPLOAD TOPLOAD TOPLOAD WR-20 WELL RECORD & LOG (Version 06/08/2012) FILE NUMBER (P-1358) POD NUMBER 3 TRN NUMBER 3-36-8-1											
FOR OSE INTERNAL USE FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEMENT TOPLOAD TOPLOAD TOPLOAD TOPLOAD WR-20 WELL RECORD & LOG (Version 06/08/2012) FILE NUMBER (P-1358) POD NUMBER 3 TRN NUMBER 3-36-8-1											
FOR OSE INTERNAL USE FROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL (cubic feet) PLACEMENT TOPLOAD TOPLOAD TOPLOAD TOPLOAD WR-20 WELL RECORD & LOG (Version 06/08/2012) FILE NUMBER (P-1358) POD NUMBER 3 TRN NUMBER 3-36-8-1							1			L	<u> </u>
FILE NUMBER (P-1358) 10 2' 5" .5 OF CONCRETE TOPLOAD		DEPTH	(feet bgl)	BORE HOLE	LIST AN	INULAR SEAL M	ATERIAL A	ND	AMOUNT		
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012) FILE NUMBER (P-1258) POD NUMBER 3 TRN NUMBER 5365	IAL	FROM	TO	DIAM. (inches)	GRAVELF	PACK SIZE-RANG	E BY INTE	RVAL	(cubic feet)	PLACE	MENT
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012) FILE NUMBER (P-1258) POD NUMBER 3 TRN NUMBER 5365	ER	0	1)					TOPLOAD	
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012) FILE NUMBER (P-1258) POD NUMBER 3 TRN NUMBER 5365	MA	2'	25'	5"	6 BAGS OF 3/8	HOLEPLUG				TOPLOAD	
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012) FILE NUMBER (P-1258) POD NUMBER 3 TRN NUMBER 5365	AR										
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012) FILE NUMBER (P-1258) POD NUMBER 3 TRN NUMBER 5365	NO.				ļ						
FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012) FILE NUMBER (P-1258) POD NUMBER 3 TRN NUMBER (-3458)					 				ļ		
FILE NUMBER (P-1258) POD NUMBER 3 TRN NUMBER 6365	rri				+						
FILE NUMBER (P-1258) POD NUMBER 3 TRN NUMBER 6365		OCE WITE	L						WELL BECORD	P. L.O.C. (N 0.4.)	10/2012
C(-13.5)			MAL US			POD NUMBER	2			2/60 (Version 06/0	08/2012)
	L		mo	-1408 N		1		1		PAGE	I OF 2

	DEPTH (feet bgl)	THICKNESS	COLOR AND TYPE OF MATERIAL ENCOUNTE	RED -	WATER	ESTIMATED YIELD FOR
	FROM	то	(feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTU (attach supplemental sheets to fully describe all u	1	BEARING? (YES / NO)	WATER- BEARING ZONES (gpm)
	0	9'	9'	TAN FINE SAND - CALICHE - CEMENT SANDSTON	E	(Y (€ N	N/A
	9'	25'	16'	TAN VERY FINE WELL SORTED SAND		(Y (N	N/A
	TD	25'				(Y ', N	
						(Y)	
						(Y (N	
ا ر						CY N	
4. HYDROGEOLOGIC LOG OF WELL						CYCN	
OF V						(Y (N	
90						(Y (N	
ICE						CYCN	
.0G						(Y (N	
EOI						(Y (N	
ROG						CYCN	
IVD						CYEN	
4. 1						CYCN	
						C_{A}	
						CYCN	
						CYAN	
						CYCN	
						CYCN	
						CYCN	
	METHOD U	SED TO ES	STIMATE YIELD	OF WATER-BEARING STRATA. (PUMP	TOTA	AL ESTIMATED	
	C AIR LIF	Г (BAILER (OTHER - SPECIFY	WEL	LL YIELD (gpm).	
		TECT	DECLUTE ATT	ACH A COPY OF DATA COLLECTED DURING WELL TES	TING INCLUDE	NG DISCHARGE	METHOD
Z.	WELL TES			ME, AND A TABLE SHOWING DISCHARGE AND DRAWD			
RVISION	MISCELLA	NEOUS INF	ORMATION				
	SOIL BOR	ING ONLY	- SOIL BORIN	G WAS PLUGGED AND ABANDONED UPON COMP	LETION OF SA	MPLING.	
SUF	LEA COU		3012 5011111				
RIG							
TEST; RIG SUPE	PRINT NAM	ME(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF W	ELL CONSTRUC	CTION OTHER TR	AN LICENSEE:
5. T	7 10111 11711	12(0) 01 01	MEE MO DOLL				
	THE UNDER	RSIGNED F	HEREBY CERTIF	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE A ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS	AND BELIEF, TH	IE FOREGOING IS	A TRUE AND
URE				0 DAYS AFTER COMPLETION OF WELL DRILLING	5 WELL RECOR	D WITH THE STA	TE ENGINEER
TAY		1					
6. SIGNATURE	12	8 Fine	···	Chugas Fran	12	- 18 - 13	
9	7.4	SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME		DATE	
	OSE INTER	NAL USE			R-20 WELL RE	CORD & LOG (Ve	rsion 06/08/2012)
	E NUMBER CATION			FOD NUMBER 11	KIT HUMBER		PAGE 2 OF 2
1111							1 1



Site Location

Well - USGS

500-Ft Radius

☐ 1,000-Ft Radius

Released to Imaging: 1/9/2024 1:39:01 PM

■ 0.5-Mi Radius

USGS Well Proximity Map Mewbourne Oil Company **ARWMS Deer Booster 82623** GPS: 32.283680,-103.472709 Lea County



Date: 9/7/23

Drafted: bja Checked: Ic



Click forNews Bulletins

Groundwater levels for the Nation

■ Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321714103270301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321714103270301 23S.34E.22.421434

Lea County, New Mexico
Latitude 32°17'18", Longitude 103°27'08" NAD27
Land-surface elevation 3,420.00 feet above NGVD29
The depth of the well is 428 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

	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
1981-03-30		D	72019	284.11			1	Z			А
1986-03-21		D	72019	283.97			1	Z			А
1991-05-30		D	72019	282.28			1	Z			Α
1996-03-08		D	72019	282.20			1	S			А

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
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy 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: 2023-03-13 18:06:29 EDT

0.41 0.31 nadww01



Click forNews Bulletins

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site no list =

• 321734103290001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321734103290001 23S.34E.16.333312

Lea County, New Mexico Latitude 32°17'53", Longitude 103°28'59" NAD27 Land-surface elevation 3,478.00 feet above NGVD29 The depth of the well is 400 feet below land surface. This well is completed in the Other aguifers (N9999OTHER) national aguifer. This well is completed in the Chinle Formation (231CHNL) local aguifer.

.

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 \$pecific vertical datum	Referenced vertical \$\datum\$? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level \$ approval status
1971-01-13		D	72019	344.05			1	Z			
1976-12-16		D	72019	347.38			1	Z			
1981-03-30		D	72019	345.40			1	Z			
1986-03-21		D	72019	347.80			1	Z			
1996-03-08		D	72019	345.30			1	S			

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	Α	Approved for publication Processing and review completed.

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

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?

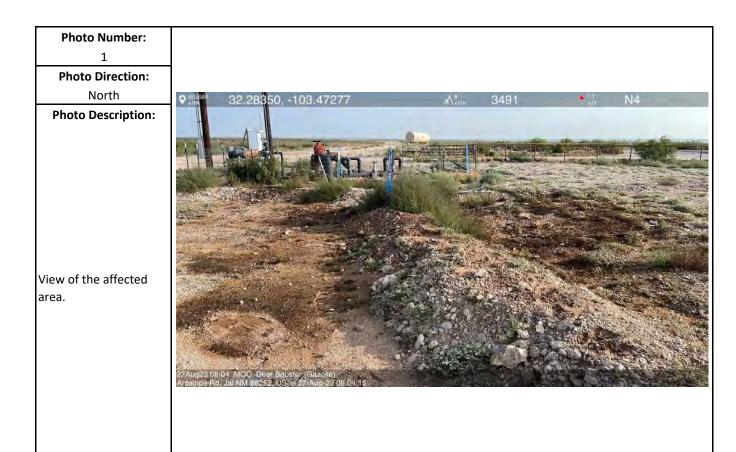
Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-03-13 18:07:58 EDT

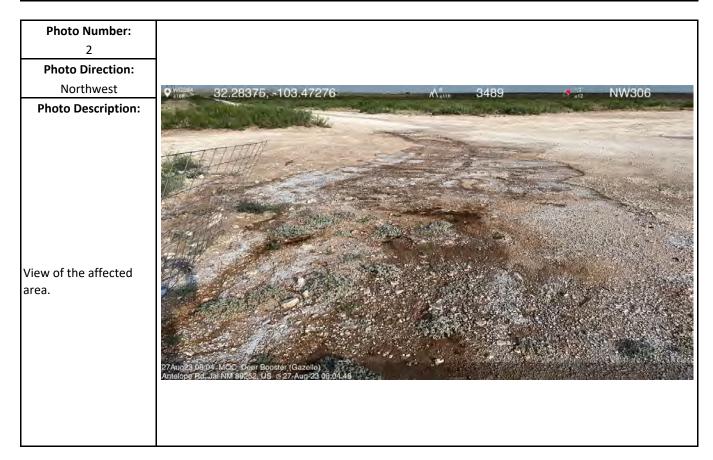
0.33 0.26 nadww01



Appendix B Field Data

Appendix C Photographic Log





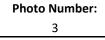


Photo Direction:

South

Photo Description:



View of the affected area.

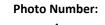


Photo Direction: West-Northwest

Photo Description:

View of the affected area.



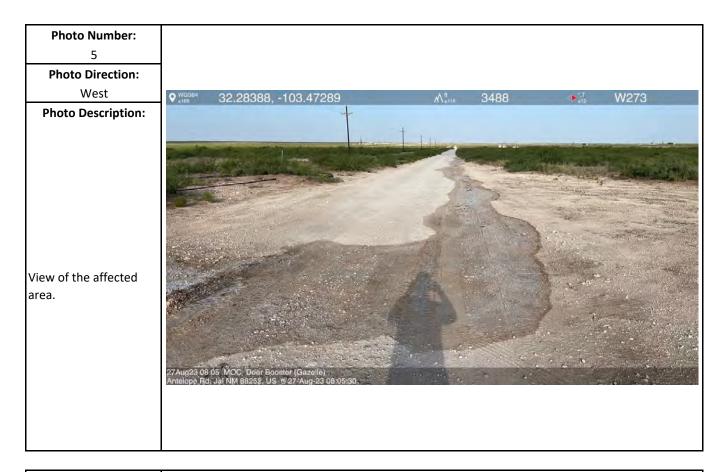




Photo Number:

7

Photo Direction:

West-Northwest

Coordinates:

32.283521,-103.472652

Photo Description:



View of the excavated area.

Photo Number:

8

Photo Direction:

Northwest

Coordinates:

32.283769,-103.472741

Photo Description:

View of the excavated area.



Photo Number:

9

Photo Direction:

West

Coordinates:

32.283921,-103.472891

Photo Description:



View of the excavated area.

Photo Number:

10

Photo Direction:

West

Coordinates:

32.283887,-103.473128

Photo Description:

View of the excavated area.



Photo Number:

11

Photo Direction:

West

Coordinates:

32.283917,-103.473506

Photo Description:



View of the excavated area.

Photo Number:

12

Photo Direction:

Northwest

Coordinates:

32.283907,-103.473780

Photo Description:

View of the excavated area.



Photo Number:

13

Photo Direction: South-Southeast

Photo Description:

View of the remediated area after backfill and regrading.



Photo Number:

14

Photo Direction:

Northwest

Photo Description:

View of the remediated area after backfill and regrading.



Photo Number:

15

Photo Direction: West-Northwest

Photo Description:

View of the remediated area after backfill and regrading.



Photo Number:

16

Photo Direction:

Northwest

Photo Description:

View of the remediated area after backfill and regrading.



Appendix D Laboratory Analytical Reports



September 12, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: ARWMS DEER BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 09/07/23 16:12.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 09/07/2023 Sampling Date: 09/07/2023

Reported: 09/12/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact Project Number: 18684 Sample Received By: Tamara Oldaker

MEWBOURNE UL/"O" SEC21 T23S-R34E Project Location:

Sample ID: FL #1. @ 3FT (H234866-01)

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	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 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	592	16.0	09/08/2023	ND	432	108	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	103	200	6.76	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	211	106	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 09/07/2023 Sampling Date: 09/07/2023

Reported: 09/12/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: FL #2. @ 4FT (H234866-02)

RTFY 8021R

ND ND ND ND ND ND	BS 1.98 2.24 2.30 6.95	% Recovery 99.2 112 115 116	7 True Value QC 2.00 2.00 2.00 6.00	RPD 3.78 1.35 1.95 3.18	Qualifier
ND ND ND	2.24 2.30	112 115	2.00 2.00	1.35 1.95	
ND ND	2.30	115	2.00	1.95	
ND					
	6.95	116	6.00	3.18	
ND					
AC					
thod Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ND	432	108	400	7.69	
MS					
thod Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ND	207	103	200	6.76	
ND	211	106	200	8.38	
ND					
	thod Blank ND ND	thod Blank BS ND 207 ND 211	thod Blank BS % Recovery ND 207 103 ND 211 106	thod Blank BS % Recovery True Value QC ND 207 103 200 ND 211 106 200	thod Blank BS % Recovery True Value QC RPD ND 207 103 200 6.76 ND 211 106 200 8.38

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 09/07/2023 Sampling Date: 09/07/2023

Reported: 09/12/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: FL #3. @ 2FT (H234866-03)

BTEX 8021B

DILX GOZID	11197	, kg	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	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	112	16.0	09/08/2023	ND	432	108	400	7.69	
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	09/08/2023	ND	207	103	200	6.76	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	211	106	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Keine



Analytical Results For:

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

Fax To:

Received: 09/07/2023 Sampling Date: 09/07/2023

Reported: 09/12/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

mg/kg

Sample ID: SW 1. (H234866-04)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	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	64.0	16.0	09/08/2023	ND	432	108	400	7.69	
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	09/08/2023	ND	207	103	200	6.76	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	211	106	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Received: 09/07/2023 Reported: 09/12/2023 Sampling Date: 09/07/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Number: 18684

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

mg/kg

Sample ID: WW 1. (H234866-05)

BTEX 8021B

DILX GOZID	mg/	- Kg	Allulyzo	Lu Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	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	96.0	16.0	09/08/2023	ND	432	108	400	7.69	
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	09/08/2023	ND	207	103	200	6.76	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	211	106	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Received: 09/07/2023

Sampling Date:

09/07/2023

Reported: Project Name: 09/12/2023

mg/kg

Sampling Type:

Soil Cool & Intact

BTEX 8021B

ARWMS DEER BOOSTER

Sampling Condition: Sample Received By:

Tamara Oldaker

Project Number: Project Location: 18684

MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: EW 1. (H234866-06)

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2023	ND	1.98	99.2	2.00	3.78	
Toluene*	<0.050	0.050	09/08/2023	ND	2.24	112	2.00	1.35	
Ethylbenzene*	<0.050	0.050	09/08/2023	ND	2.30	115	2.00	1.95	
Total Xylenes*	<0.150	0.150	09/08/2023	ND	6.95	116	6.00	3.18	
Total BTEX	<0.300	0.300	09/08/2023	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	64.0	16.0	09/08/2023	ND	432	108	400	7.69	
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	09/08/2023	ND	207	103	200	6.76	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	211	106	200	8.38	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	90.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Kune

တ

Page 9 of 9



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

roject Manager:	ny Name: Etech Environmental Manager: Lance Crenshaw							BILL TO A P.O. #:											REC		-	
	Lance Crenshaw						4	P.O.	#:			4	0									
Address: 2617	W Marland Blvd							Com	pany:	Me	ewbour	ne										
City: Hobbs	S	State: NM	Zip:	8	8240)					Nalker						1 1					
Phone #: 575-	396-2378 F	ax #: 575-396-14	29					Addı	ess:								1 1					
Project #: 1868	_	Project Owner:		wbou	me Oi	Comp	anv	City:					1									
	ARWMS Deer Booste							State			Zip:		1									
Project Location:								Phoi	47	1			1									
Sampler Name:	Auren Rias	1010				-		Fax														
FOR LAB USE ONLY	Major Riv.)			T		MATR	IX		RESE	RV.	SAMPLI	NG	1				1 1					- 1
Lab I.D.	Sample	I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	WASTEWATER	SOIL	SLUDGE	OTHER:	ICE / COOL	OTHER:	DATE	TIME	Chloride	ТРН	BTEX 8021							
	FL #1. @ 3	Ft	X			1			V		4-7-23		X	X	X							
2	FL #1. @ 3 FL #1. @ 4 FL #3. @ 2	FI	×			×			X		1		X	×	×							
31	7 # 3. 6 2	Ft	X			4			×				×	×	X							
	Sw1.		×			x			1				v	×	X	0 -						
	wwl.		X			X			£		0		K	×	X	1						
6	Ewl.		×			X			1	-	9-7-23		X	Ж	x							
							A					A	1									
													1									
selyees. All claims including svice. In no event shall Car	Damages. Cardinal's liability and of glicone for negligence and say other dheal be liable for incidental or core g out of or related to the performance	r crase whatsvever shall be d	without li	raiveu ur imitation egardles	, busines	de iff writi ss interrup ther such	hy and nations, los	scelved's	or loss o	f profits	h JU days after o	or mpletion of the nt t, its subsidieri e	applicable su.	□ Ye		No No	Add'l P		:			
Relinquished By:		Time: Time:	Rec	(2)	d By:	iple Co	ondition	de la constant de la		CKE	D BY:	REMAI	RKS:	Email	result	ts to	lance@	Detec	henv.	com		

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 FORM-006 R 2.0



September 13, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: ARWMS DEER BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 09/08/23 16:13.

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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 09/08/2023 Sampling Date: 09/08/2023

Reported: 09/13/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact Project Number: 18684 Sample Received By: Dionica Hinojos

MEWBOURNE UL/"O" SEC21 T23S-R34E Project Location:

Sample ID: FL # 4 @ 3FT (H234893-01)

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	09/12/2023	ND	1.90	95.0	2.00	3.75	
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	7.25	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.26	113	2.00	7.76	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.79	113	6.00	6.02	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 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	48.0	16.0	09/13/2023	ND	448	112	400	3.64	
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	09/12/2023	ND	190	94.8	200	5.41	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	184	92.0	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	87.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 09/08/2023 Sampling Date: 09/08/2023

Reported: 09/13/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: FL # 5 @ 2FT (H234893-02)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Alldiyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	1.90	95.0	2.00	3.75	
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	7.25	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.26	113	2.00	7.76	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.79	113	6.00	6.02	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	32.0	16.0	09/13/2023	ND	448	112	400	3.64	
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	09/12/2023	ND	190	94.8	200	5.41	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	184	92.0	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 09/08/2023 Sampling Date: 09/08/2023

Reported: 09/13/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: FL # 6 @ 3FT (H234893-03)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	1.90	95.0	2.00	3.75	
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	7.25	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.26	113	2.00	7.76	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.79	113	6.00	6.02	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	48.0	16.0	09/13/2023	ND	448	112	400	3.64	
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	09/12/2023	ND	190	94.8	200	5.41	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	184	92.0	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	89.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 09/08/2023 Sampling Date: 09/08/2023

Reported: 09/13/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: FL # 7 @ 1FT (H234893-04)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Alldiyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	1.90	95.0	2.00	3.75	
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	7.25	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.26	113	2.00	7.76	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.79	113	6.00	6.02	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	48.0	16.0	09/13/2023	ND	448	112	400	3.64	
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	09/12/2023	ND	190	94.8	200	5.41	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	184	92.0	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	85.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 09/08/2023 Sampling Date: 09/08/2023

Reported: 09/13/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: FL # 8 @ 2 1/2FT (H234893-05)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	1.90	95.0	2.00	3.75	
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	7.25	
Ethylbenzene*	< 0.050	0.050	09/12/2023	ND	2.26	113	2.00	7.76	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.79	113	6.00	6.02	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	64.0	16.0	09/13/2023	ND	448	112	400	3.64	
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	09/12/2023	ND	190	94.8	200	5.41	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	184	92.0	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 09/08/2023 Sampling Date: 09/08/2023

Reported: 09/13/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: FL # 9 @ 2FT (H234893-06)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Alldiyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	1.90	95.0	2.00	3.75	
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	7.25	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.26	113	2.00	7.76	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.79	113	6.00	6.02	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	64.0	16.0	09/13/2023	ND	448	112	400	3.64	
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	09/12/2023	ND	190	94.8	200	5.41	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	184	92.0	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	86.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 09/08/2023 Sampling Date: 09/08/2023

Reported: 09/13/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: 14

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

ma/ka

Sample ID: EW 2 (H234893-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	1.90	95.0	2.00	3.75	
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	7.25	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.26	113	2.00	7.76	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.79	113	6.00	6.02	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	272	16.0	09/13/2023	ND	448	112	400	3.64	
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	09/12/2023	ND	190	94.8	200	5.41	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	184	92.0	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	93.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 09/08/2023 Sampling Date: 09/08/2023

Reported: 09/13/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: 14

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

ma/ka

Sample ID: WW 2 (H234893-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	1.90	95.0	2.00	3.75	
Toluene*	<0.050	0.050	09/12/2023	ND	2.13	106	2.00	7.25	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.26	113	2.00	7.76	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.79	113	6.00	6.02	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	224	16.0	09/13/2023	ND	448	112	400	3.64	
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	09/12/2023	ND	190	94.8	200	5.41	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	184	92.0	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	82.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



09/08/2023

Soil

Analytical Results For:

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

Sampling Type:

Received: 09/08/2023 Sampling Date:

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: MS

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

09/13/2023

Sample ID: FL # 10 @ 4FT (H234893-09)

Reported:

BTEX 8021B

DILX GOZID	ıııg,	K9	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	1.68	
Toluene*	<0.050	0.050	09/12/2023	ND	2.05	102	2.00	2.27	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.00	99.8	2.00	2.39	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	5.98	99.7	6.00	2.94	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 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	64.0	16.0	09/13/2023	ND	448	112	400	3.64	
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	09/12/2023	ND	190	94.8	200	5.41	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	184	92.0	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	87.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

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

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

Celeg D. Freene

Released to Imaging: 1/9/2024 1:39:01 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	: Etech Environmental								BI	LL TO					ANA	LYSIS	REQU	JEST	
Project Manager	r: Lance Crenshaw						P.C), #:											
Address: 261	7 W Marland Blvd						Co	mpar	ıy: 7	Newbourn	e	1							
City: Hobbs	State: NM	Zip:	88	8240						Walker		1			8 1				
	-396-2378 Fax #: 575-396-1	429					Ad	dress	3:			1							
roject #: 186	84 Project Owner:	Me	wboun	ne Oil	Comp	pally	Cit	y:			4	1	ı					1	
	ARWMS Deer Booster						Sta	ite:		Zip:		1							
	n: UL/ "O" Sec 21 T23S - R34E						Ph	one i	l:			1							
Sampler Name:							Fax	c #:				1							
FOR LAB USE ONLY	7,500			-	MATR	XIX		PRE	SERV	SAMPLII	VG .	1							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	WASTEWATER	SOIL	SLUDGE	OTHER:	0	OTHER:	DATE	TIME	Chloride	тРН	BTEX 8021					
1	FL# 4. @ 3Ft	X			X				X	9/8/23		X	X	X					
之	FL # 5, @ 2Ft	X			X				X	1		X	X	X					
3	FL # 6. @ 3Ft	X			X				X			X	X	X					
4	FL # 7.0 1Ft	X			X				1		T	Y	X	X	1				
	F1 # 8. @ 25Ft	X			X				1			1x	X	X					
6	FL# 9. 6 2Ft	X			X				X			X	X	X					
7	Ew 2	X			X				X	111		X	×	X					
	ww 2	X			X				X	U,		Х	X	X					
9	FL # 10 @ 4Ft	X			X				X	9/8/23		X	X	X					
												1							

Relinquished By:	Date 7 8 23 Received By:	Phone Result:	Add'l Phone #: Add'l Fax #:
Relinquished By:	Date: Received By:	REMARKS: Email results to	lance@etechenv.com
Delivered By: (Circle One) 3 Sampler - UPS - Bus - Other.	Sample Condition CHECKED BY Cool Infact September 1	#140	

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 FORM-006 R 2.0



September 14, 2023

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

RE: ARWMS DEER BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 09/11/23 16:06.

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

Received: 09/11/2023 Sampling Date: 09/11/2023

Reported: 09/14/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Applyand By 1H /

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

ma/ka

Sample ID: NW 1. (H234906-01)

DTEV 0021D

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	09/12/2023	ND	1.92	96.2	2.00	0.485	
Toluene*	<0.050	0.050	09/12/2023	ND	1.92	96.2	2.00	0.168	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	2.04	102	2.00	0.114	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	6.11	102	6.00	0.522	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	32.0	16.0	09/13/2023	ND	432	108	400	0.00	
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	09/12/2023	ND	218	109	200	0.933	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	208	104	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 09/11/2023 Sampling Date: 09/11/2023 Reported: 09/14/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact Project Number: Sample Received By: 18684 Dionica Hinojos

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: NW 2. (H234906-02)

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	09/12/2023	ND	1.91	95.6	2.00	2.45	
Toluene*	<0.050	0.050	09/12/2023	ND	1.96	98.1	2.00	1.70	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	1.99	99.3	2.00	2.88	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	5.86	97.7	6.00	2.99	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 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	80.0	16.0	09/13/2023	ND	432	108	400	0.00	
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	09/12/2023	ND	218	109	200	0.933	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	208	104	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Sample Received By:

09/11/2023

Dionica Hinojos

Analytical Results For:

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

Received: 09/11/2023 Sampling Date: Reported: 09/14/2023

Sampling Type: Soil Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact

18684 Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: EW 3. (H234906-03)

Project Number:

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	09/12/2023	ND	1.91	95.6	2.00	2.45	
Toluene*	<0.050	0.050	09/12/2023	ND	1.96	98.1	2.00	1.70	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	1.99	99.3	2.00	2.88	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	5.86	97.7	6.00	2.99	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	<16.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	218	109	200	0.933	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	208	104	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	134	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	148	% 49.1-14	18						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 09/11/2023 Sampling Date: 09/11/2023

Reported: 09/14/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: MS

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

mg/kg

Sample ID: WW 3. (H234906-04)

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	09/12/2023	ND	1.91	95.6	2.00	2.45	
Toluene*	<0.050	0.050	09/12/2023	ND	1.96	98.1	2.00	1.70	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	1.99	99.3	2.00	2.88	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	5.86	97.7	6.00	2.99	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	32.0	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	218	109	200	0.933	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	208	104	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 09/11/2023 Reported:

09/14/2023 ARWMS DEER BOOSTER

Project Name: Project Number: 18684

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E Sampling Date: 09/11/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Dionica Hinojos

Sample ID: SW 2. (H234906-05)

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	09/12/2023	ND	1.91	95.6	2.00	2.45	
Toluene*	<0.050	0.050	09/12/2023	ND	1.96	98.1	2.00	1.70	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	1.99	99.3	2.00	2.88	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	5.86	97.7	6.00	2.99	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	176	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	218	109	200	0.933	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	208	104	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 09/11/2023 Sampling Date: 09/11/2023

Reported: 09/14/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact Project Number: 18684 Sample Received By: Dionica Hinojos

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: FL #11 @ 3FT (H234906-06)

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	09/12/2023	ND	1.91	95.6	2.00	2.45	
Toluene*	<0.050	0.050	09/12/2023	ND	1.96	98.1	2.00	1.70	
Ethylbenzene*	<0.050	0.050	09/12/2023	ND	1.99	99.3	2.00	2.88	
Total Xylenes*	<0.150	0.150	09/12/2023	ND	5.86	97.7	6.00	2.99	
Total BTEX	<0.300	0.300	09/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 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	224	16.0	09/13/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2023	ND	218	109	200	0.933	
DRO >C10-C28*	<10.0	10.0	09/12/2023	ND	208	104	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2023	ND					
Surrogate: 1-Chlorooctane	82.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 matrix interference's. QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. ND Analyte NOT DETECTED at or above the reporting limit RPD Relative Percent Difference Samples not received at proper temperature of 6°C or below. Insufficient time to reach temperature. ***

Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine

Received by OCD: 10/27/2023 3:17:40 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: Etech Environn	nental								BI	LL TO					A	NALYSIS	REC	QUEST		
Project Manage	r: Lance Crensha	W	-		-			P	0. #:												
Address: 261	7 W Marland Blvd							C	ompa	ny: 🏄	Kubourn	c	1								
City: Hobbs		State: NN	A 2	žip:	882	40					r Walker		1.		1 1				1 1		
Phone #: 575	5-396-2378	Fax #: 57	5-396-142	9				A	ddres	s :			1						1 1		
Project #: 186	684	Project Ow	vner:	Mev	boume	Oil Co	mpa	ny C	ity:				1								
-	ARWMS Deer Boos	ster						S	tate:		Zip:		1		1 1				1 1		
Project Location	n: UL/ "O" Sec 21	T23S - R34E	E					Р	hone	F:			1							1	
	Arron Kids							F	ax #:				1								
FOR LAB USE ONLY						MA	TRIX		PRE	SERV.	SAMPLI	NG 4	1								
HB490b Lab I.D.	Sampl	e I.D.		(G)RAB OR (C)OMP	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE:	OTHER:	DATE	TIME	Chloride	ТРН	BTEX 8021						
	NW L			X		X				Y	9/11/23		X	У	X						
3	NW 2.			X		×				4			X	X	Х				\perp	-	\perp
	EW 3.		_	Y	-	Y				X			Y	X	X	-			\vdash	-	
4	WW 3.		-	X	+	4	-	-	_	X			X	X	X	-	_		-	+	
5	Sw 2.			<u> </u>	+	¥	-	+	-	4		,	X	7	X	-					-
0	FL#11@3	H		+	+	X	-	+	++	X	-		_	x	^	-	-			+	
				+		+	H		1	+			1	-	1		-			-	
				+		+			1			-	,								
				1									1								

PLEASE NOTE: Liability and Demages. Cardinal's liability and dient's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatever shall be deemed wanter smade in voltract and year competition of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subsidiaries, affiliates or successors answer out of or related to the performance of services instrument by Cardinar reparatess of whether such claims it bears of use in the profile such claims.

Relinquished By:	Date: 9/11/73 Received By:	Phone Result:
Home Kies	Time: 16:06 Daysill	REMARKS: Email results to lance@etechenv.com
Relinquished By:	Date: Received By:	4.1
7	Time:	
Delivered By: (Circle One)	Sample Condition CHECKEL BY:	1 '
3 mpler - UPS - Bus - Other:	Yes Yes	#140
+ Cardinal cannot accent verbal cha	ange Place fax written changes to 575-393-2476	



September 18, 2023

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

RE: ARWMS DEER BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 09/13/23 16:16.

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

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:

Received: 09/13/2023 Sampling Date: 09/13/2023

Reported: 09/18/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact Project Number: 18684 Sample Received By: Dionica Hinojos

MEWBOURNE UL/"O" SEC21 T23S-R34E Project Location:

Sample ID: FL 12 @ 1 (H234958-01)

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	09/15/2023	ND	1.81	90.7	2.00	0.347	
Toluene*	<0.050	0.050	09/15/2023	ND	1.90	95.2	2.00	1.41	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	1.92	96.1	2.00	0.237	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.58	93.0	6.00	0.631	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	160	16.0	09/14/2023	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	09/14/2023	ND	199	99.3	200	0.410	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	136	68.2	200	40.0	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	84.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Analyzed By: MS

Received: 09/13/2023 Reported: 09/18/2023 Sampling Date: 09/13/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER

Sampling Condition: Cool & Intact

Project Number: 18684

Sample Received By: Dionica Hinojos

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

mg/kg

Sample ID: FL 13 @ 1 (H234958-02)

BTEX 8021B

DILX GOZID	mg/	ng .	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2023	ND	1.81	90.7	2.00	0.347	
Toluene*	<0.050	0.050	09/15/2023	ND	1.90	95.2	2.00	1.41	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	1.92	96.1	2.00	0.237	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.58	93.0	6.00	0.631	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 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	224	16.0	09/14/2023	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	09/14/2023	ND	199	99.3	200	0.410	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	136	68.2	200	40.0	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	79.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 09/13/2023 Sampling Date: 09/13/2023

Reported: 09/18/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: MS

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

mg/kg

Sample ID: FL 14 @ 3 (H234958-03)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2023	ND	1.81	90.7	2.00	0.347	
Toluene*	<0.050	0.050	09/15/2023	ND	1.90	95.2	2.00	1.41	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	1.92	96.1	2.00	0.237	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.58	93.0	6.00	0.631	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 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	09/14/2023	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	09/14/2023	ND	199	99.3	200	0.410	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	136	68.2	200	40.0	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



09/13/2023

Analytical Results For:

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

Received: 09/13/2023 Sampling Date:

Reported: 09/18/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: MS

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

mg/kg

Sample ID: FL 15 @ 1 (H234958-04)

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	09/15/2023	ND	1.81	90.7	2.00	0.347	
Toluene*	<0.050	0.050	09/15/2023	ND	1.90	95.2	2.00	1.41	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	1.92	96.1	2.00	0.237	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.58	93.0	6.00	0.631	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 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	176	16.0	09/14/2023	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	09/14/2023	ND	199	99.3	200	0.410	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	136	68.2	200	40.0	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	85.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 09/13/2023 Sampling Date: 09/13/2023

Reported: 09/18/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact Project Number: 18684 Sample Received By: Dionica Hinojos

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: FL 16 @ 1 1/2 (H234958-05)

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	09/15/2023	ND	1.81	90.7	2.00	0.347	
Toluene*	<0.050	0.050	09/15/2023	ND	1.90	95.2	2.00	1.41	
Ethylbenzene*	< 0.050	0.050	09/15/2023	ND	1.92	96.1	2.00	0.237	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.58	93.0	6.00	0.631	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	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	208	16.0	09/14/2023	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	09/14/2023	ND	199	99.3	200	0.410	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	136	68.2	200	40.0	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	77.7 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.99	49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 09/13/2023 Sampling Date: 09/13/2023

Reported: 09/18/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: MC

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: FL 17 @ 1 1/2 (H234958-06)

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	09/15/2023	ND	1.81	90.7	2.00	0.347	
Toluene*	<0.050	0.050	09/15/2023	ND	1.90	95.2	2.00	1.41	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	1.92	96.1	2.00	0.237	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.58	93.0	6.00	0.631	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	224	16.0	09/14/2023	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	09/14/2023	ND	199	99.3	200	0.410	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	136	68.2	200	40.0	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	79.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 09/13/2023 Sampling Date: 09/13/2023

Reported: 09/18/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: MS

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

mg/kg

Sample ID: FL 18 @ 1 (H234958-07)

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	09/15/2023	ND	1.81	90.7	2.00	0.347	
Toluene*	<0.050	0.050	09/15/2023	ND	1.90	95.2	2.00	1.41	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	1.92	96.1	2.00	0.237	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.58	93.0	6.00	0.631	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 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	192	16.0	09/14/2023	ND	432	108	400	7.14	
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	09/14/2023	ND	199	99.3	200	0.410	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	136	68.2	200	40.0	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 09/13/2023 Sampling Date: 09/13/2023

Reported: 09/18/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact Project Number: 18684 Sample Received By: Dionica Hinojos

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: FL 19 @ 1 1/2 (H234958-08)

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	09/15/2023	ND	1.81	90.7	2.00	0.347	
Toluene*	<0.050	0.050	09/15/2023	ND	1.90	95.2	2.00	1.41	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	1.92	96.1	2.00	0.237	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.58	93.0	6.00	0.631	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	6 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	240	16.0	09/14/2023	ND	432	108	400	7.14	
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	09/14/2023	ND	199	99.3	200	0.410	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	136	68.2	200	40.0	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 09/13/2023 Sampling Date: 09/13/2023

Reported: 09/18/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact Project Number: Sample Received By: 18684 Dionica Hinojos

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

Sample ID: FL 20 @ 1 1/2 (H234958-09)

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	09/15/2023	ND	1.81	90.7	2.00	0.347	
Toluene*	<0.050	0.050	09/15/2023	ND	1.90	95.2	2.00	1.41	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	1.92	96.1	2.00	0.237	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.58	93.0	6.00	0.631	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 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	208	16.0	09/14/2023	ND	432	108	400	7.14	
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	09/14/2023	ND	199	99.3	200	0.410	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	136	68.2	200	40.0	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	84.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 09/13/2023 Sampling Date: 09/13/2023

Reported: 09/18/2023 Sampling Type: Soil

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: MS

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

mg/kg

Sample ID: NW 3 (H234958-10)

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	09/15/2023	ND	1.81	90.7	2.00	0.347	
Toluene*	<0.050	0.050	09/15/2023	ND	1.90	95.2	2.00	1.41	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	1.92	96.1	2.00	0.237	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.58	93.0	6.00	0.631	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	uorobenzene (PID 112 % 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	192	16.0	09/14/2023	ND	432	108	400	7.14	
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	09/14/2023	ND	199	99.3	200	0.410	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	136	68.2	200	40.0	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Keene



09/13/2023

Soil

Analytical Results For:

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

Received: 09/13/2023 Sampling Date:
Reported: 09/18/2023 Sampling Type:

Project Name: ARWMS DEER BOOSTER Sampling Condition: Cool & Intact
Project Number: 18684 Sample Received By: Dionica Hinojos

Analyzed By: MS

Project Location: MEWBOURNE UL/"O" SEC21 T23S-R34E

mg/kg

Sample ID: SW 3 (H234958-11)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2023	ND	1.81	90.7	2.00	0.347	
Toluene*	<0.050	0.050	09/15/2023	ND	1.90	95.2	2.00	1.41	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	1.92	96.1	2.00	0.237	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.58	93.0	6.00	0.631	
Total BTEX	<0.300 0.300		09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 % 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	160	16.0	09/14/2023	ND	432	108	400	7.14	
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	09/14/2023	ND	199	99.3	200	0.410	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	136	68.2	200	40.0	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Freene

Released to Imaging: 1/9/2024 1:39:01 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: Etech Environmental						BILL TO							-11	ANALY	SIS F	REQUE	ST			
Project Manage	r: Lance Crenshaw						P.(). #:	M	01/1001	~~							\Box			
Address: 261	7 W Marland Blvd					4	Company:			1	1				- 1						
City: Hobbs	State: NN	/ Zip		88240			Att	Attn: Connor Walker							1 1						
Phone #: 575	-396-2378 Fax #: 57	5-396-1429	429			Ad	dress:					1			1 1						
Project #: 186	84 Project Ov	vner: Me	wbo	ırne Oil	Com	pany	Cit	y: Ho	66	5				1	1						
Project Name:	ARWMS Deer Booster						Sta	te: N	m	Zip: 887	40			1		1 1					
Project Location	n: UL/ "O" Sec 21 T23S - R34	Ε ′					Ph	one#:	, N	_	111			1	1	1 1					
Sampler Name:	Dominic Casarez						_	c#:	* 1								- 1				
FOR LAB LISE ONLY		0.		N	IATR	XIX		PRESI	ERV.	SAMPLII	NG	1				1					- 1
H234958 Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	MHER:	DATE	TIME	Chloride >	ТРН	BTEX 8021							
DC	FL11@1	C	ı		V			1		9-13	å	V	V	V	1						
2	FC 13 @ 1	1	П		1			1				4	1	1			_				
3	FL14 @ 3	-	Ш		1	_		Ш				11	+	\sqcup			_	_			
4	FL 15 @ 1		Ш		1	-		\square				μ	+	++	-	+	+	_	-		_
5	FL16 @ 12		Ш		\sqcup	+	1	\square	\vdash	1		11	+	+	-	+	+	_	-		
6	FL17 @ 12		Ш		1	+	1	\mathbb{H}	-			11	+1	+	1	+	+	_	-		
7	FL18 C1	$-\!$	H		+	+	+	$\vdash \vdash \vdash$	-			+	++	++	\vdash	+ +	+	+	+	-	-
8	FL 19 @ 12		Ш		₩	19	-				-	11	+	++	\vdash	+ +	+	_	-		_
- LO	FL 20 @ 1/2		1		1	-	-		,	1		1	1	1	+	-	+	-	+		+
	Ww3 nd Damages. Cardinal's liability and client's exclusive	IV.	V	- Lotter L	4	entro -	as tor	shall be for	I besie	the emount poid is	u the eliget for the										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unitees made in writing and received by Cardinal willish 30 days efter completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental demages, including without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subsidiaries,

Relinquished By:	Date: 9-/3	Received By:		Phone Result: Fax Result:	☐ Yes ☐ No☐ Yes ☐ No☐	Add'l Phone #: Add'l Fax #:	
Relinquished By:	Time: 16-16	Received By:	4 ₹:	REMARKS:	Email results to	lance@etechenv.com	
	Time:						
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	3.8℃	Sample Condition Cool Intact Yes Yes No No	CHECKED BY:	#140			_ []

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 FORM-006 R 2.0

Received by OCD: 10/27/2023 3:17:40 PM

Released to Imaging: 1/9/2024 1:39:01 PM

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(575) 393-2326 FAX (575) 393-2476		$\alpha \alpha \alpha$
Company Name: Etech Environmental	BILL TO	ANALYSIS REQUEST
Project Manager: Lance Crenshaw	P.O. #: Mewbown	
Address: 2617 W Marland Blvd	Company:]
City: Hobbs State: NM Zip: 88240	Attn: Connor Walker	
Phone #: 575-396-2378 Fax #: 575-396-1429	Address:	
Project #: 18684 Project Owner: Mewbourne Oil Compan	city: Hobbs	1
Project Name: ARWMS Deer Booster	State: NM Zip: 8824 0	4
Project Location: UL/ "O" Sec 21 T23S - R34E	Phone #:	
Sampler Name: DoMinic Casave2	Fax #:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	4
(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL	ACIDIGE COOL THER:	Chloride TPH BTEX 8021
DC 1 543 C1 V	9-13	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contra	ct or tort, shall be limited to the amount paid by the client for	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other course whatsoever shall be deemed webved unless sued in writing and received by Cardinal within 30 days after complation of the applicable service. In no event shall Cardinal be liable for incidental or consequented damages, including without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subsidiaries, of the profile incurred by client, its subsidiaries, and in the profile incurred by client, its subsidiaries, and in the profile incurred by client, its subsidiaries, and in the profile incurred by client, its subsidiaries, and in the profile incurred by client, its subsidiaries, and in the profile incurred by client, its subsidiaries, and in the profile incurred by client, its subsidiaries, and in the profile incurred by client, its subsidiaries, and its s

Relinquished By:	Date: 9./3	Received By:		Phone Result: Fax Result:	☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:
Relinquished By:	Date:	Received By:		REMARKS:	Email results to	lance@etechenv.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-3.8%	Sample Condition Cool Intact Yes Yes	CHECKED BY:	#140		

Appendix E Regulatory Correspondence

From: Tamarah Kendrick <tamarah@etechenv.com>

Sent: Friday, September 8, 2023 3:21 PM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Cc: Lance Crenshaw <lance@etechenv.com>

Subject: [EXTERNAL] nAPP2325141309 - Mewbourne - ARWMS Deer Booster - Reportable Release

Site - Sampling Notification

This email serves as notice Etech intends to conduct confirmation soil sampling for the following reportable release site beginning 09/11/2023.

nAPP2325141309 - ARWMS Deer Booster

If you have any questions or need any additional information, please feel free to contact Lance Crenshaw by phone or email.

Lance Crenshaw
Etech Environmental
Phone 575-631-1064
lance@etechenv.com

Tamarah Kendrick

Project Coordinator ETech - Environmental and Safety Solutions 2617 W. Marland Blvd Hobbs, NM 88240



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Friday, September 8, 2023 4:28:10 PM **To:** Tamarah Kendrick <tamarah@etechenv.com>

Cc: Lance Crenshaw <lance@etechenv.com>; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Subject: RE: [EXTERNAL] nAPP2325141309 - Mewbourne - ARWMS Deer Booster - Reportable

Release Site - Sampling Notification

Hi Tamarah,

The OCD has received your notification. Notification requirements are **two full business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Sincerely,

Shelly

Shelly Wells * Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520|Shelly.Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

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 280466

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	280466
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Crea	ated By	Condition	Condition Date
sco	ott.rodgers	None	1/9/2024