	Page 1 of 12	8
Incident ID	nAPP2236030437	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	>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 vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Cooled site man showing immediated and surface features subsymptote features delimentian maintee and manitaring year	1_

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: 3/14/2023 11:28:30 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	nAPP2236030437
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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:	Date:3/14/2023			
email: cwalker@mewbourne.com	Telephone: (806)202-5281			
OCD Only				
Received by: Jocelyn Harimon	Date: <u>03/14/2023</u>			

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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 it	ems 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 a should their operations have failed to adequately investigate and remuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulate restore, reclaim, and re-vegetate the impacted surface area to the correctional control of the correction of the cor	nediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially aditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Printed Name: Connor Walker	Title: Sr. Engineer
Signature:	Date: 3/14/2023
email: cwalker@mewbourne.com	Telephone: <u>(806)202-5281</u>
OCD Only	
Received by:	Date: <u>03/14/2023</u>
	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:	Date: 03/21/2023
Printed Name: Jennifer Nobui	Title: Environmental Specialist A

Remediation Summary & Soil Closure Request

Mewbourne Oil Company ARWMS Deer Booster

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. nAPP2236030437

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D Lubbock, Texas 79413

Ben J. Arguijo

Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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- Appendix B Field Data & Soil Profile Logs
- Appendix C Laboratory Analytical Reports
- Appendix D Photographic Log
- 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. Details of the release are summarized below:

			Locat	tion of Rel	ease Soi	urce	
Latitude: 32.283680 Longitude: -103.472709							
			Prov	rided GPS are in	WGS84 form	at.	
Site Name:			MS Deer Booster		te Type:		Pipeline
Date Release Dis	covere	1:	12/13/2022	API#	(if applic	able):	N/A
Unit Letter	Sec	tion	Township	Ran	ge	Count	ty
"O"	2	1	23S	34]		Lea	
Surface Owner:	Sta	te		al X Privat and Volu	·		Limestone Basin Prop Ranch, LLC
Crude Oil		Volum	ne Released (bbls)			Volume	Recovered (bbls)
X Produced W	ater	Volum	ne Released (bbls)	48	3	Volume	Recovered (bbls) 40
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?							
Condensate Volume Released (bbls) Volume Recovered (bbls)							
Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)				Recovered (Mcf)			
Other (describe) Volume/Weight Released Volume/Weight Recovered							
Cause of Releas A 4" poly transi		led.				1	
				Initial Res	sponse		
X The source of	of the re	lease ha	as been stopped.				
X The impacte	d area l	nas been	secured to protect h	uman health	and the en	vironment.	
X Release mate	erials h	ave beei	n contained via the u	se of berms o	r dikes, ab	sorbent pad,	, or other containment devices
X All free liqu	ids and	recover	rable materials have b	oeen removed	l and mana	ged appropr	riately.

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

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the ARWMS Deer Booster release site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on January 19, 2023, an investigative soil boring was drilled nearby in an effort to determine if shallow groundwater is present in the area. The soil boring was advanced to a total depth of approximately 115 feet below ground surface (bgs) and left open for several days. A groundwater gauging event conducted on February 21, 2023, indicated the borehole was dry. The location of the investigative soil bore is depicted in Figure 2. A drilling log is provided in Appendix B.

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, depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the ARWMS Deer Booster are as follows:

Probable Depth to Groundwater	Constituent	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 January 25, 2023, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. A Hach Quantab® chloride test kit and/or olfactory/visual senses were utilized to field-screen the horizontal 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/or 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 January 5, 2023, Etech collected 20 confirmation soil samples (NW 1, NW 2, SW 1, SW 2, WW 1, and FS 1 @ 6 Inches through FS 15 @ 6 Inches) from the sidewalls and floor of the excavated area. The soil samples were submitted 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/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 16.0 mg/kg in soil samples NW 2 and SW 1 to 320 mg/kg in soil sample FS 12 @ 6 Inches.

On January 6, 2023, Etech collected 12 confirmation soil samples (NW 3 through NW 6, SW 3 through SW 7, and FS 16 @ 6 Inches through FS 18 @ 6 Inches) 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/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample SW 3 to 192 mg/kg in soil sample FS 18 @ 6 Inches.

On January 10, 2023, Etech collected 18 confirmation soil samples (NW 7 through NW 10, EW 1, EW 2, SW 8, WW 2, WW 3, WW 4, and FS 19 @ 6 Inches through FS 26 @ 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/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil sample SW 8 to 1,440 mg/kg in soil sample FS 23 @ 4 Ft.

On January 11, 2023, Etech collected eight (8) confirmation soil samples (SW 9 and FS 27 @ 4 Ft through FS 33 @ 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/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL, with the exceptions of soil samples FS 27 @ 4 Ft and FS 29 @ 4 Ft, which exhibited TPH concentrations of 13.6 mg/kg and 13.5 mg/kg, respectively. Chloride concentrations ranged from 592 mg/kg in soil sample SW 9 to 5,840 mg/kg in soil sample FS 27 @ 4 Ft.

The final dimensions of the excavated area were approximately 410 feet in length, 12 to 36 feet in width, and six (6) inches to four (4) feet in depth. During the course of remediation activities, Etech transported approximately 696 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 740 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

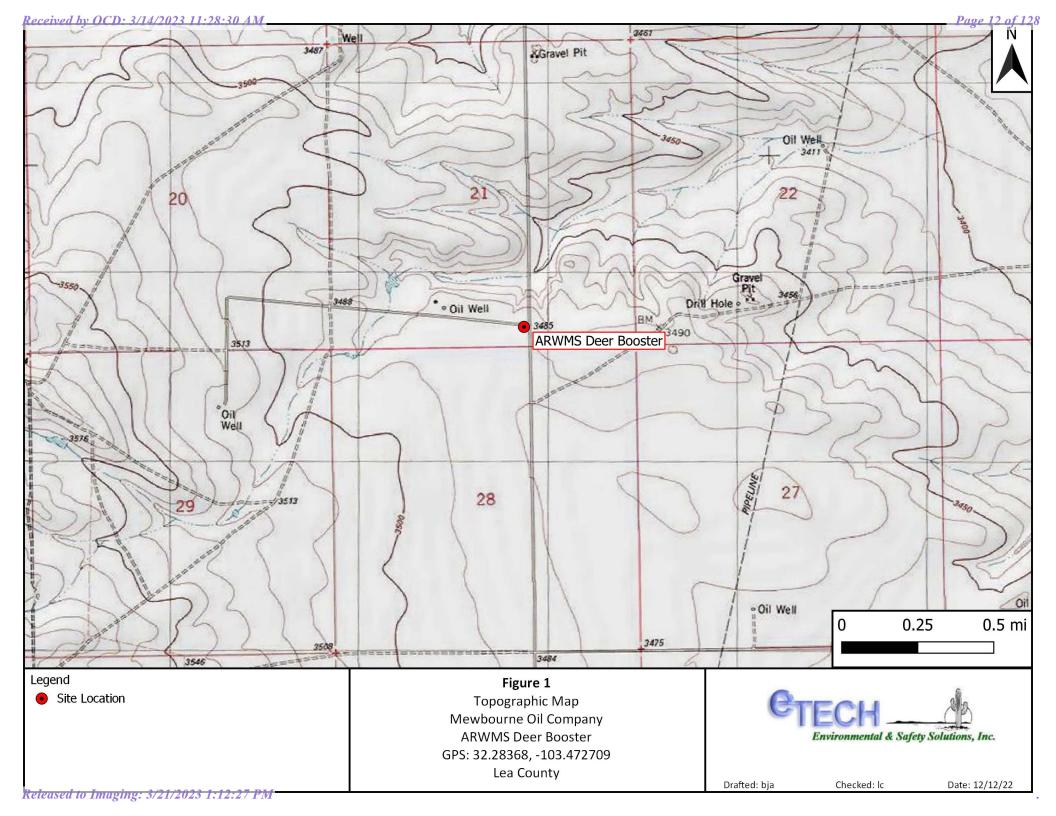


Figure 2 Site Characterization Map

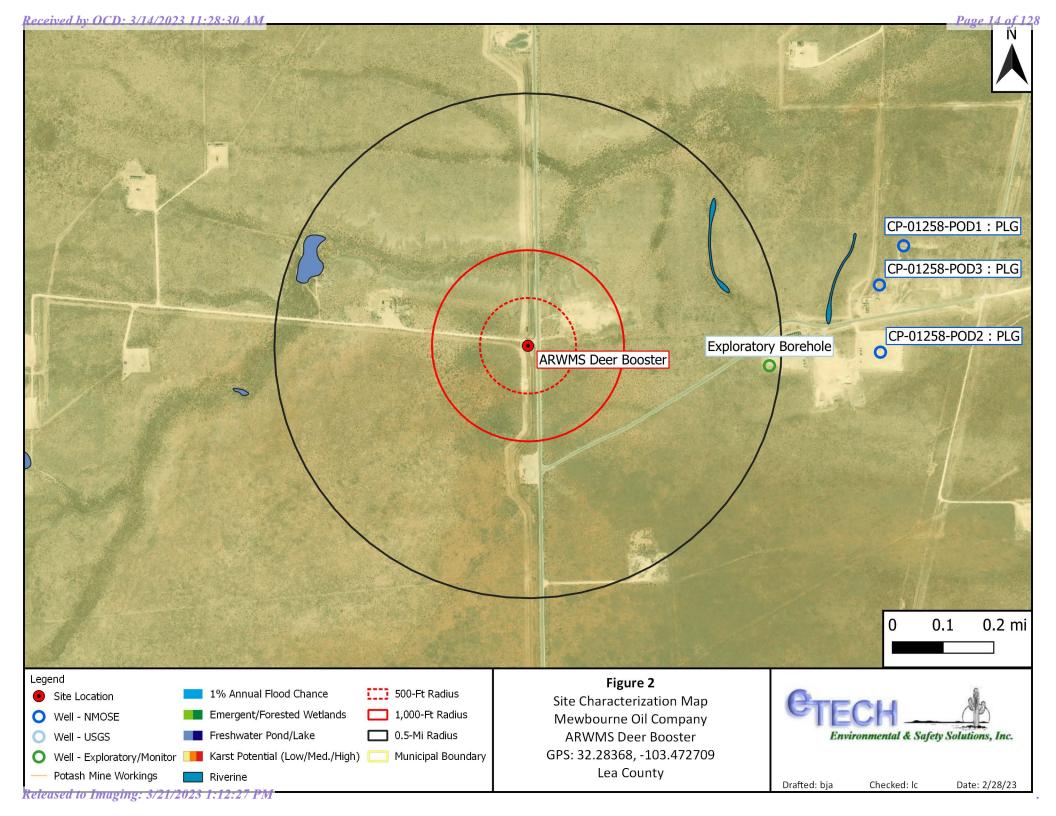


Figure 3 Site & Sample Location Map

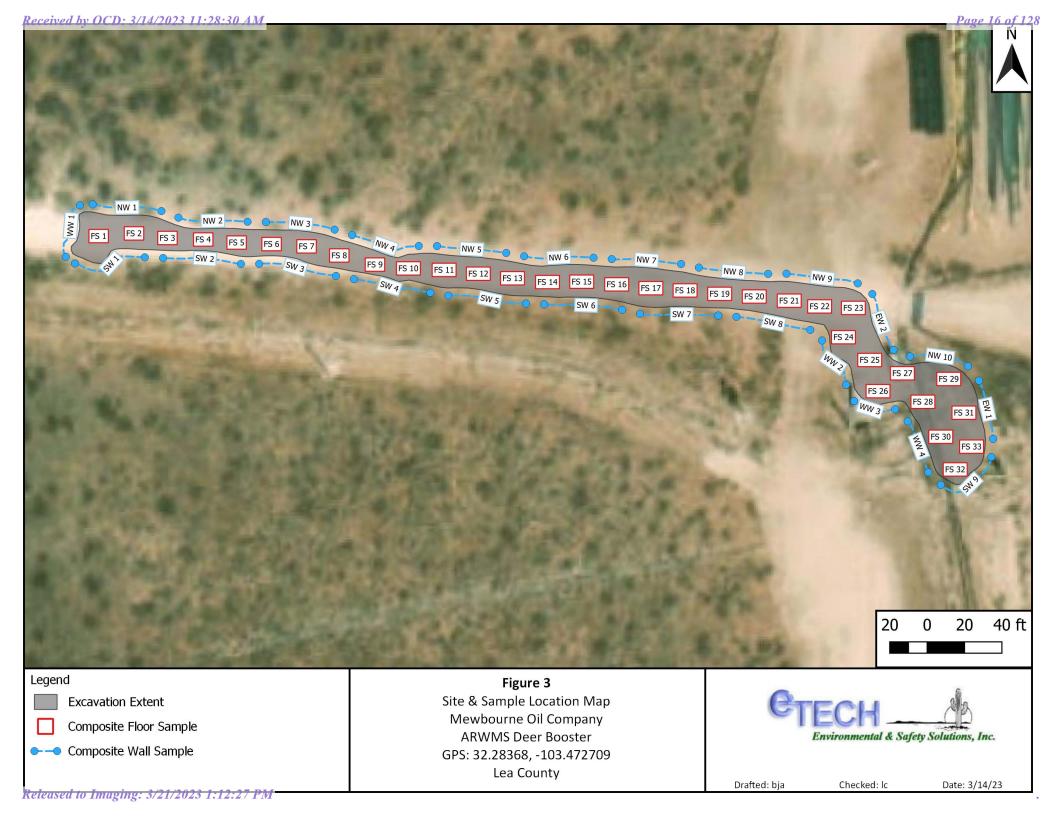


Table 1 Concentrations of BTEX, TPH & Chloride in Soil

					Table	1					
			Concent	trations of			loride in S	oil			
					ourne Ói						
				ARV	WMS Dee	r Booster					
]	NMOCD	Ref. #: nA	PP223603	30437				
NMOCI	D Closure Cri	teria		10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD R	Reclamation S	tandard		10	50	N/A	N/A	N/A	N/A	100	600
				SW 84	6 8021B		SW	846 8015M	Ext.	1	4500 Cl
Sample ID	Date	Depth	Soil	Benzene	BTEX	GRO	DRO	GRO + DRO	ORO	ТРН	Chloride
*		(Feet)	Status	(mg/kg)	(mg/kg)	C ₆ -C ₁₀	C ₁₀ -C ₂₈	C_6 - C_{28}	C ₂₈ -C ₃₆	C ₆ -C ₃₆	(mg/kg)
						(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
NW 1	1/5/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
NW 2	1/5/2023	0-0.5	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 3	1/6/2023	0-0.5	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW 4	1/6/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW 5 NW 6	1/6/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
_	1/6/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW 7 NW 8	1/10/2023		In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW 9	1/10/2023 1/10/2023		In-Situ In-Situ	<0.050	<0.300	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<10.0 <10.0	<30.0 <30.0	80.0 112
NW 10	1/10/2023			< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
EW 1	1/10/2023			< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
EW 2	1/10/2023			< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 1	1/5/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 2	1/5/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW 3	1/6/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 4	1/6/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 5	1/6/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW 6	1/6/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW 7	1/6/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 8	1/10/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 9	1/11/2023	0.5-3.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
WW 1	1/5/2023	0-0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
WW 2	1/10/2023	0.5-3.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW 3	1/10/2023	0.5-3.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW 4	1/10/2023		In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 1 @ 6 Inches	1/5/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 2 @ 6 Inches	1/5/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 3 @ 6 Inches	1/5/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 4 @ 6 Inches	1/5/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FS 5 @ 6 Inches	1/5/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 6 @ 6 Inches	1/5/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 7 @ 6 Inches	1/5/2023	0.5	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 8 @ 6 Inches	1/5/2023	0.5	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 9 @ 6 Inches	1/5/2023	0.5	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 10 @ 6 Inches	1/5/2023	0.5	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 11 @ 6 Inches	1/5/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 12 @ 6 Inches	1/5/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FS 13 @ 6 Inches FS 14 @ 6 Inches	1/5/2023	0.5	In-Situ In-Situ	<0.050 <0.050	<0.300	<10.0 <10.0	<10.0 <10.0	<20.0 <20.0	<10.0 <10.0	<30.0 <30.0	48.0 272
FS 15 @ 6 Inches	1/5/2023 1/5/2023	0.5	In-Situ In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 16 @ 6 Inches	1/6/2023	0.5	In-Situ In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 17 @ 6 Inches	1/6/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
151, w o menes	1/0/2023	0.5	III-DITU	-0.050	-0.500	-10.0	-10.0	-20.0	-10.0	-50.0	70.0

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

1/6/2023

1/10/2023

0.5

0.5

In-Situ

In-Situ

< 0.050

< 0.050

< 0.300

< 0.300

<10.0

<10.0

<10.0

<10.0

<20.0

< 20.0

<10.0

<10.0

<30.0

< 30.0

192

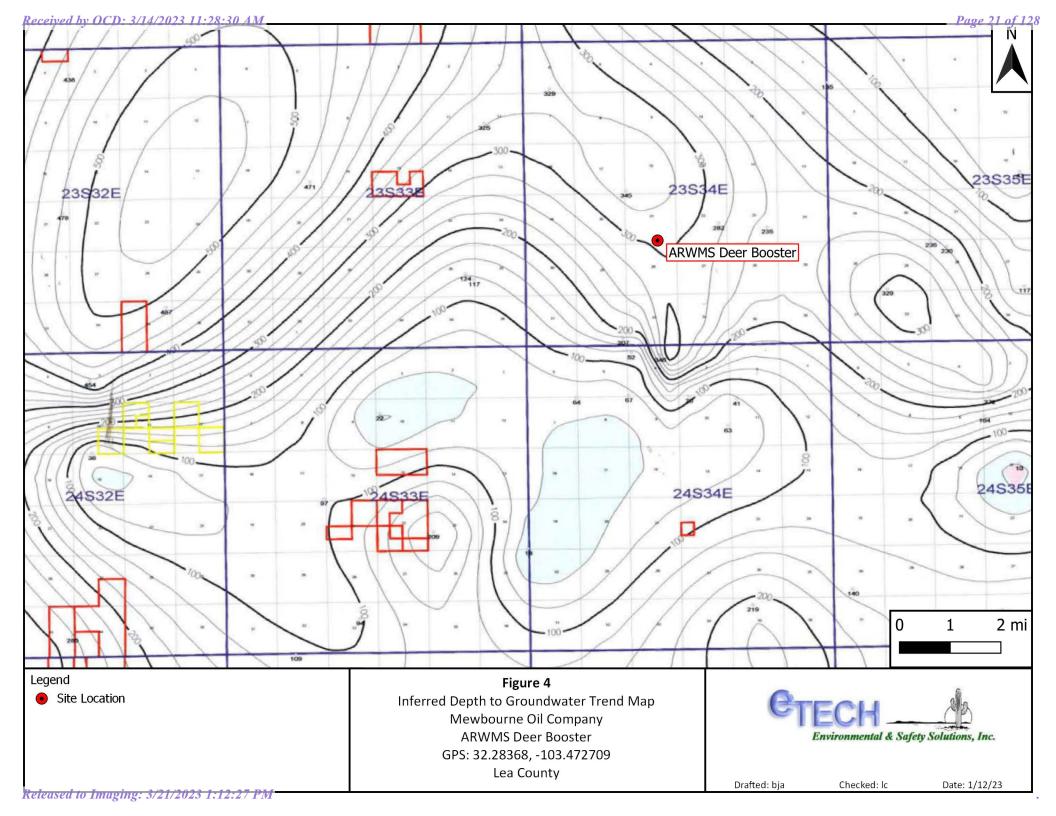
128

FS 18 @ 6 Inches

FS 19 @ 6 Inches

Table 1												
	Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company											
						- '	y					
ARWMS Deer Booster												
NMOCD Ref. #: nAPP2236030437 NMOCD Closure Criteria 10 50 N/A N/A 1,000 N/A 2,500 20												
	eclamation St			10	50	N/A	N/A	1,000 N/A	N/A	2,500 100	20,000 600	
TUITOED I	l l	anuar u	I		6 8021B	IV/A		846 8015M		100	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)	
FS 20 @ 1 Ft	1/10/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	592	
FS 21 @ 6 Inches	1/10/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0	
FS 22 @ 6 Inches	1/10/2023	0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
FS 23 @ 4 Ft	1/10/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,440	
FS 24 @ 4 Ft	1/10/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,100	
FS 25 @ 4 Ft	1/10/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
FS 26 @ 4 Ft	1/10/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,120	
FS 27 @ 4 Ft	1/11/2023	4	In-Situ	< 0.050	< 0.300	<10.0	13.6	13.6	<10.0	13.6	5,840	
FS 28 @ 4 Ft	1/11/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,080	
FS 29 @ 4 Ft	1/11/2023	4	In-Situ	< 0.050	< 0.300	<10.0	13.5	13.5	<10.0	13.5	2,600	
FS 30 @ 4 Ft	1/11/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,240	
FS 31 @ 4 Ft	1/11/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,720	
FS 32 @ 4 Ft	1/11/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,920	
FS 33 @ 4 Ft	1/11/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	< 30.0	5,120	

Appendix A Depth to Groundwater Information





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

closed)

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

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

(In feet)

POD

		Sub-		Q	Q	Q							Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	\mathbf{X}	Y	DistanceDept	hWellDepthWater Column
<u>CP 01258 POD2</u>		CP	LE	1	4	3	22	23S	34E	644941	3572883 🌍	1137	65
<u>CP 01258 POD3</u>		CP	LE	1	4	3	22	23S	34E	644938	3573097	1148	25
<u>CP 01258 POD1</u>		CP	LE	1	4	3	22	23S	34E	645015	3573221	1249	25

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 3

<u>UTMNAD83 Radius Search (in meters):</u>

Easting (X): 643804.3 **Northing (Y):** 3572913.55 **Radius:** 1610

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12/14/22 8:02 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X Y

CP 01258 POD1 1 4 3 22 23S 34E

645015 3573221

1

Driller License: 1711

Driller Company:

STRAUB CORPORATION

Driller Name:

12/04/2013

BRYAN, EDWARD (LD)

Drill Finish Date:

12/04/2013

25 feet

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:

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

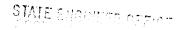
POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us



100 HE 23 P 1: 35

		•	ELL NUMBER)					OSE FILE NU	MBER(S)		
l ON			URRY FED #2	SWD	SB-1			CP-1258			
AT	WELL OWN	•	*					PHONE (OPT	IONAL)		
707	1		GAS CO,LLC								
GENERAL AND WELL LOCATION			NG ADDRESS LD, SUITE 300)				CITY MIDLAND		STATE TX 7970	ZIP 1
WE											
ANI	WELL	1	32	GREES	MINUTES 17	S SECONE 11		* ACCUBACS	Y REQUIRED: ONE TEN	TH OF A SECOND	
M.	LOCATIO (FROM GI		ATITUDE			· · · · · · · · · · · · · · · · · · ·	N	4	QUIRED: WGS 84	TH OF A SECOND	
NER		L	ONGITUDE 103	<u></u>	27	36	W	ļ	·		
I. GE					FADDRESS AND COMM E-21 TO SITE ON				ge) where available S-R34E N32.286 '	W 103.461	
	LICENSE NI	IMBER	NAME OF LICE	ENSED	DRILLER		-		NAME OF WELL DR	ILLING COMPANY	
	WD-1711		EDWARD B						STRAUB CORPO		
	DRILLING S	TARTED	DRILLING EN	DED	DEPTH OF COMPLET	ED WELL (FT)	BORE HOL	LE DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED (FT))
	12-4-13		12-4-13	(0		25'		N/A		
	COMPLETE	D.WELL IS	C ARTESIAN		ORYHOLE (SHALLOW (UNC	ONEINED		STATIC WATER LEV	VEL IN COMPLETED WE	LL (FT)
NO	COMPLETE					SITALLOW (UNC			IVA	· · · · · · · · · · · · · · · · · · ·	
[AT]	DRILLING F	LUID:	€ AIR		MUD	ADDITIVES - SPE	CIFY:				
ORN	DRILLING N	METHOD:	ROTARY	1	C HAMMER C	CABLE TOOL	ОТНЕ	R - SPECIFY			
N. E	DEPTH	(feet bgl)	BORE HO	DLE	CASING MATE GRA		CA	SING	CASING	CASING WALL	SLOT
S	FROM	ТО	DIAM)	(include each ca		1	NECTION YPE	INSIDE DIAM.	THICKNESS (inches)	SIZE (inches)
DRILLING & CASING INFORMATION			(inches	,	note section	s of screen)			(inches)		ļ `
ઝ	0	25'	5"		N/A		N/A		N/A	N/A	N/A
Ľ									-		
RIL											
2. D											
				-							T
							<u> </u>		<u> </u>	1	
	DEPTH	(feet bgl)	BORE HO			NULAR SEAL MA			AMOUNT	метно	
IAL	FROM	ТО	DIAM. (inc	hes)		ACK SIZE-RANG	E BY INTE	RVAL	(cubic feet)	PLACEN	MENT
ANNULAR MATERIAL	0	2'	5"		.5 OF CONCRE					TOPLOAD	
MA	2'	25'	5"		6 BAGS OF 3/8	HOLEPLUG				TOPLOAD	
AR					<u> </u>						
5											
Ā											
ъ,											
	OSE INTER					POD NUMBER				& LOG (Version 06/0	8/2012)
			0-1258			1		22.3		BAGE	1.05.2
LOC	ATION	non				265	SUP	11 5	91	PAGE	1 OF 2

	DEPTH (feet bgl)	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING
				(attach supplemental sheets to fully describe all units)	(1251110)	ZONES (gpm)
	0	3'	3'	TAN VERY FINE SAND - CLAICHE - CEMENT SANDSTONE	$C_{\Lambda} \odot N$	N/A
	3'	25'	22'	TAN VERY FINE WELL SORTED SAND	CYGN	N/A
	TD	25'			(Y (N	
					C Y (: N	
					CY (N	
T'					C Y (· N	
WEL					C Y . N	
OF					C Y (N	
00					CY (N	
101					C Y (: N	
COG					C Y (N	
EOI					CYCN	
ROG					CY (N	
4. HYDROGEOLOGIC LOG OF WELL					CY (N	
4. I					CYGN	
					CYCN	
					CYCN	
					CY•CN	
					CYCN	
					CYCN	
					CYCN	
	METHOD U	ISED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA: PUMP 1	TOTAL ESTIMATED	
	C AIR LIF	т С	BAILER (OTHER - SPECIFY:	WELL YIELD (gpm):	
NOI	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCL ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER		
ERVISION	MISCELLA	NEOUS IN	ORMATION:			
			' - SOIL BORIN	G WAS PLUGGED AND ABANDONED UPON COMPLETION OF	SAMPLING.	
c sı	LEA COU	NTY, NM.				
TEST; RIG SUP						
rest	PRINT NAM	ME(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONST	TRUCTION OTHER TH	IAN LICENSEE
'n						
SIGNATURE	CORRECT I	RECORD O	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:		
NAT	1	, ,				
SIG	H	I D	m	Elimon Bruss 12	-18-13	
6.	``	SIGNAT	URE OF DRILLE	Elwheid Bryan 12 er / Print signee name	DATE	
F0*	000 0000				DECORD A LOCAL	
FOR	COSE 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

(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 POD2

Q64 Q16 Q4 Sec Tws Rng 22 23S 34E

644941 3572883

Driller License: 1711 **Driller Company:**

STRAUB CORPORATION

Driller Name:

BRYAN, EDWARD (LD)

12/04/2013

Plug Date:

Drill Start Date: Log File Date:

12/04/2013 12/23/2013 **Drill Finish Date: PCW Rcv Date:**

Source:

Pump Type:

Pipe Discharge Size:

Depth Well:

Estimated Yield:

Casing Size:

65 feet

Depth Water:

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12/14/22 8:03 AM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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STATE EXPENSES OF FIRST

图形:23 P I:35

				· · · · · · · · · · · · · · · · · · ·				13 1 (9 2 3 7)		
	ì	JMBER (WELL	•				OSE FILE NU	MBER(S)		
10	1,	SIANA CUR	RRY FED #2 SWD	SB-2	·		CP-1258			
OCAT	SIANA O	IL AND GA					PHONE (OPT	IONAL)		
1. GENERAL AND WELL LOCATION		ER MAILING A ARIENFELD	ADDRESS D, SUITE 300				MIDLAND		STATE TX 7970	ZIP 1
Q.	WELL		DEGREES	MINUTES	SECONE	OS .	<u> </u>			
LA	LOCATIO		TUDE 32	17	07	N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND	
ERA	(FROM G	PS) LONG	GITUDE 103	27	39	W	* DATUM RE	QUIRED: WGS 84		
GEN	DESCRIPTIO	N RELATING WE	LL LOCATION TO STREE	T ADDRESS AND COMMO	ON LANDMARKS - PLS	S (SECTION, To	OWNSHJIP, RANC	SE) WHERE AVAILABLE		
÷	FROM CO	D RD 21B G	O ENE .7TH ON	E-21 TO SITE ON	L. NMNM- 996	8, SW/4 S	SEC 22, T23	S-R34E N32.286 \	N 103.461	
	LICENSE N	- 1	NAME OF LICENSED	DRILLER				NAME OF WELL DR	ILLING COMPANY	
	WD-1711		EDWARD BRYAN	N				STRAUB CORPC	DRATION	
	DRILLING S 12-4-13	1	DRILLING ENDED 2-4-13	DEPTH OF COMPLETE O	D WELL (FT)	BORE HOL	LE DEPTH (FT)	DEPTH WATER FIRE	ST ENCOUNTERED (FT)	
									EL IN COMPLETED WE	LL (FT)
7	COMPLETE	OWELL IS.	ARTESIAN	ORY HOLE	SHALLOW (UNC	ONFINED)		N/A		
DRILLING & CASING INFORMATION	DRILLING F	LUID: (AIR	C MUD	ADDITIVES - SPI	CIFY:		1		
RMA	DRILLING N	METHOD: (ROTARY	(HAMMER (CABLE TOOL	OTHE	R - SPECIFY			
VFO!	DEPTH	(feet bgl)	BORE HOLE	CASING MATE	RIAL AND/OR		A CINIC	CASING	CASING WALL	SLOT
4G 13	FROM	TO	DIAM	GRA		CONN	ASING NECTION	INSIDE DIAM.	THICKNESS	SLOT SIZE
ASIN			(inches)	(include each casing string, and note sections of screen)			YPE	(inches)	(inches)	(inches)
8 C	0	65'	5"	N/A N/A				N/A	N/A	N/A
ING						<u> </u>				<u> </u>
RILI		-				-				
2. D]										
						1				-
			 							
			1			 				
	DEDTU	(feet bgl)		LIGT AND	WW + D OF + 1 + 4	I TERIAL A	ND.	A MOUNTE	<u> </u>	
7	FROM	TO	BORE HOLE DIAM. (inches)		NULAR SEAL MA NCK SIZE-RANG			AMOUNT (cubic feet)	METHO PLACEN	
RIA	0	2'	5"	.5 OF CONCRET	<u>E</u>				TOPLOAD	
IATI	2'	65'	5"	5 BAGS OF 3/8					TOPLOAD	
IR N										
ULA										
ANNULAR MATERIAL										
ъ.										
	005 ::							0.1101		0/00:5:
	OSE INTER	77 -	1056		POD NUMBER	2		0 WELL RECORD & SUMBER 53(LOG (Version 06/0	8/2012)
	ATION		1258	<u> </u>	35.340	_	ı	NUMBER 53	PAGE	1 OF 2
		mor	1	<u>d</u> .	JJ. 290	<u> </u>	<u>·· 271</u>			

	DEPTH (feet bgl)				ESTIMATED
	FROM	то	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	3'	3'	CALICHE - TAN VERY FINE SAND - SANDSTONE	CY 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'			CYGN	
	l				CYGN	
٦					CYCN	
HYDROGEOLOGIC LOG OF WELL					CYCN	
9					CY CN	
903					$C_A C_N$	
1213					C Y (: N	
107					$C^{Y}C^{N}$	
GEO					\bigcap Y \bigcap N	
SKO.					$C_{A} \cup N$	
HXI					$C_A C_N$	
4					C_{A} C_{N}	
}					$C_A \subset N$	
					C^{Y}	
ļ					C^{Y} , C^{N}	
ĺ		<u> </u>			C^{Y}	
					$C_A \subset_N$	
ļ		<u> </u>			$C^{Y}C^{N}$	
Ì				,	OTAL ESTIMATED WELL YIELD (gpm):	
	AIR LIF	т С	BAILER (OTHER - SPECIFY:	WELL TIELD (gpin).	
NOI	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCL ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER		
ERVISION	MISCELLA	NEOUS IN	FORMATION:			
PER	SOIL BOF	RING ONL	Y - SOIL BORIN	IG WAS PLUGGED AND ABANDONED UPON COMPLETION OF	SAMPLING.	
TEST; RIG SUP	LEA COU	NTY, NM.				
. R						
res	PRINT NA	ME(S) OF D	RILL RIG SUPE	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONST	RUCTION OTHER TH	IAN LICENSEE
'n						
<u> </u>			Uco CD		THE PORTCONIC IO	A TOUE AND
SIGNATURE	CORRECT	RECORD C	OF THE ABOVE I	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:	ORD WITH THE STA	TE ENGINEER
.V	A		1			
6. SIC	1	of In	*	Edward Spyn / /2 ER / PRINT SIGNEE NAME	1-18-13	
		SIGNAT	r∯re of drilli ———————	ER / PRINT SIGNEE NAME	DATE	
FO	R OSE INTER	NAL USE		WR-20 WELL	RECORD & LOG (Ve	ersion 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

(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 POD3

Q64 Q16 Q4 Sec Tws Rng

22 23S 34E 644938 3573097

Driller License:

1711

Driller Company:

STRAUB CORPORATION

Driller Name:

BRYAN, EDWARD (LD)

Drill Finish Date:

12/04/2013

Plug Date:

Drill Start Date: Log File Date:

12/04/2013 12/23/2013

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: Depth Well: 25 feet

Depth Water:

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12/14/22 8:03 AM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER STATE ENGINEER OFFICE

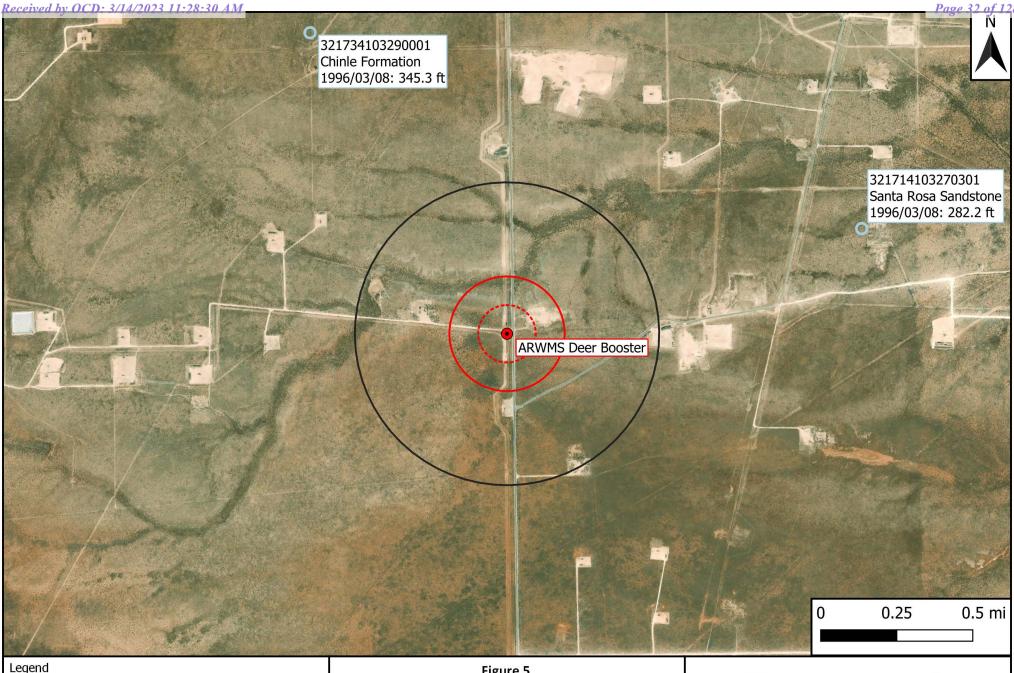
	OSE I							7813	7 1 1 1 1	P 1: 35		
S	(POI	D3) SIAN	A CI	JRRY F	ED #2 S	WD SB-3			1			
A.T.	DEPTH (feet bgl) STROM TO DIAM. (inches) GRAVEL PACK SIZE-RANGE BY INTERVAL TOPLOAD											
0	SIAN	IA OIL AN	ID G	AS CO	,LLC				PHONE (OP	TIONAL)		
	WELL	OWNER MA	ILIN	G ADDRE	SS							
VEI	601	N MARIEI	VFEL	LD, SUI	TE 300							ZIP
DV									MIDLANI	J	TX 79	9701
AN	\					······································	SECO	NDS				
KAL	DEPUT OF STATE CONTINUENCY STATE OF STA											
NER	CONTINUES CONT											
GE	PODD SIANA CURRY PED 2 SWD 58-3											
		A CO RD)1R	GO EN	E 7TU C	ALE 24 TO SITE	ION LANDMARKS - P	LSS (SECTION, TO	OWNSHJIP, RAN	GE) WHERE AVAILABLE		
			-10	do Liv	E./IHC	IN E-21 TO SITE OF	N L. NMNM- 99	68, SW/4 S	EC 22, T23	S-R34E N32.286	W 103 461	
	LICENS	SE NUMBER		NAME	OF LICENS	ED DRILLER						
	WD-1	711		EDW/	ARD BRY	AN				NAME OF WELL D	RILLING COMPANY	
				DRILLI	NG ENDED	DEPTH OF COMPLET	ED WELL (FT)			1		
	12-4-1	13	1	2-4-13		The second second	ED WELL (F1)		E DEPTH (FT)	DEPTH WATER FI	RST ENCOUNTERED (I	FT)
NO	COMPLI	ETED WELL	IS:	C AR	TESIAN	ORY HOLE	SHALLOW (UNC	ONFINED)		STATIC WATER LE	VEL IN COMPLETED V	WELL (FT)
1ATI	DRILLIN	NG FLUID:	(AIR		MUD	ADDITIVES - SPI	ECIFY				
ORA	DRILLIN	G METHOD:	(RO7	TARY	C HAMMER C			OPERIO			
NFC	DEP	TH (feet bg	1)	POR	DE HOLE	CASING MATE		TOTHER	- SPECIFY:			
GI				7		GRA	DE	CAS	ING	CASING	CASING WALL	01.00
SIN						(include each cas	sing string and		1	INSIDE DIAM.) OLO I
CA	0	251				note sections	of screen)	I Y	PE	(inches)	(inches)	
8	0	25'		5"		N/A		N/A		N/Δ	NI/A	-
N										14/71	IN/A	N/A
ILI												
DR												
7												
1												
-												
L												
	DEPTH	H (feet bgl)	T	DODE								
4 F			_			LIST ANNU	JLAR SEAL MA	TERIAL AND)	AMOUNT	METHO	D OF
RIA					(menes)			BY INTERV	AL	(cubic feet)		
						.5 OF CONCRETE						
MA L		25'		5"		6 BAGS OF 3/8 H	OLEPLUG					
AK L											TOPLOAD	
Į L												
N												
3			1									
			+									
OR O	SE INITED	NAL UCE										
ILE N	UMRER	11/			7				WR-20 V	VELL RECORD &	LOG (Version OC/O	/2012:
		CP	-/	25	8	P	OD NUMBER	3	TRN NUM	MBER Z	1 1	/2012)
UCAT	ION	mor	7			/	235.2	45 2	7 71	11		
						C	,,,,,	16.0	4.29	1	PAGE 1	OF 2

PAGE 2 OF 2

	DEPTH (feet bgl)		COLOR AND	TYPE OF MATERIAL ENCOUNT	ERED -	WATER	YIELD FOR
	FROM	то	THICKNESS (feet)	INCLUDE WATER-	BEARING CAVITIES OR FRACT emental sheets to fully describe all	URE ZONES	BEARING? (YES / NO)	WATER- BEARING ZONES (gpm)
							CY 6 N	N/A
	0	9'	9'		LICHE - CEMENT SANDSTO	VL .	CYGN	N/A
	9'	25'	16'	TAN VERY FINE WEL	L SORTED SAND		CY, N	
	TD	25'					CYCN	
							CY(N	
							CYN	
J.							CYCN	
WEI							CYCN	
OF							CYIN	
900							CYCN	
ICI					*		CYIN	
507							CYON	
4. HYDROGEOLOGIC LOG OF WELL							CYCN	
ROC							((·	
HXD							CYCN	
4.							CYCN	
							CY CN	
							C Y N	
							C Y C N	
							CY CN	
							CYCN	
						T	OTAL ESTIMATED	
	METHOI	USED TO	ESTIMATE YIEI	LD OF WATER-BEARING	GSTRATA: PUMP		WELL YIELD (gpm	
	C AIR I	IFT (BAILER (OTHER - SPECIFY:				
	WELL T	TEST TEST	ST RESULTS - A	TTACH A COPY OF DAT	A COLLECTED DURING WELL IOWING DISCHARGE AND DRA	TESTING, INCLU	JDING DISCHARG THE TESTING PER	E METHOD, LIOD.
TEST; RIG SUPERVISION				11112, 1112				
SVIS	MISCEL	LANEOUS	INFORMATION:			MADI ETION OF	SAMPLING	
PEF	SOIL B	ORING ON	NLY - SOIL BOR	ING WAS PLUGGED A	AND ABANDONED UPON CO	MIPLETION OF	SAMI LIVE.	
G St	LEA CO	OUNTY, N	VI.					
L: R			i.			DE WELL CONC	TRUCTION OTHER	THAN LICENSEE:
resi	PRINT	NAME(S) OI	F DRILL RIG SUI	PERVISOR(S) THAT PRO	VIDED ONSITE SUPERVISION (JF WELL CONST	ROCTIONOTHER	
S.								
			TO MODERN CER	TIELES TUAT TO THE B	SEST OF HIS OR HER KNOWLED	GE AND BELIE	F, THE FOREGOING	G IS A TRUE AND
SIGNATURE					EST OF HIS OR HER KNOWLEL ND THAT HE OR SHE WILL FILE IPLETION OF WELL DRILLING:	THIS WELL RE	CORD WITH THE S	STATE ENGINEER
LAN	/	n 1		- 1	a		12-18-13	
6. SIG	12	13	100	ELWARD C	3 R. Jan		DAT	
	1	SIGN	NATURE OF DRI	LLER / PRINT SIGNEE	NAME			
	FOR OSE IN	TERNAL U	SE					(Version 06/08/2012)
	OK OSE IN				POD NUMBER	TRN NUMBI	ER	

FILE NUMBER

LOCATION





Site Location

Well - USGS

500-Ft Radius

□ 1,000-Ft Radius

Released to Imaging: 3/21/2023 1:12:27 PM

■ 0.5-Mi Radius

Figure 5

USGS Well Proximity Map Mewbourne Oil Company **ARWMS Deer Booster** GPS: 32.28368, -103.472709 Lea County



Drafted: bja

Checked: lc

Date: 1/10/23



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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 aguifers (N99990THER) national aguifer.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

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 \$\frac{1}{2}\$ 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			А
1996-03-08		D	72019	282.20			1	S			А



0

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

able of data

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 aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Tab-separated dat	<u>ta</u>											
Graph of data												
Reselect period												
Date \$	Time \$? Water- level	? Parameter code	Water level, feet below land surface	Water level, feet above \$pecific vertical datum	Referenced vertical \$\phi\$ datum	? Status	? Method of measurement	? Measuring \$agency	? Source of measurement	? Water- level	,
1971-01-13		D	72019	344.05			1	Z				Α
1976-12-16		D	72019	347.38			1	Z				Α
1981-03-30		D	72019	345.40			1	Z				Α
1986-03-21		D	72019	347.80			1	Z				Α
1996-03-08		D	72019	345.30			1	S				Α

Explanation

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

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0.41 0.31 nadww01



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.

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0.33 0.26 nadww01



Appendix B Field Data & Soil Profile Logs



Sample Log

	ARUMS	Poer Box	950
roject:	Antelop	e PW-Line	

172 Project Number:

Latitude:

32.2837668

Longitude:

Date:

-103.4728985

Sample ID	PID/Odor	Chloride Conc.	GPS
Sw1.		200	
WW 1.	-	286 588	
FS 1. @ Giacles		536	
NW 1.	-	4260	
(w 2	-	536	
es 2 @ Ginches	-	588	
VW I	-	400	
S. 3. 6 Ginches	-	588	
S. 9. W Ginches	-	588	
vw.2.	_	ND	
Sw 3,	-	ND	
55. 6 Ginches	-		
5 G. G Girches		5 88 180	
5 7. 6 6 inches 5. 8: 6 6 inches	-	NO.	
S. 8 6 binches		ND	
5. 9. (c) Ginchus	-	180	
5 10; & Ginches	-	2/2	
VW3.	-	424	-
iu 4.		232	
S 11. 6 Ginches	-	300	
5 12 in Ginches		468	
VW 4	-	200	
iw 5	-	260	
5 13 (a) 6 inches 14 (a) 6 inches	-	536	
5 14 (a) 6 inches	-	200	
5 15 @ 6 inches	-	380	
VW 5	-	588	
w 6		172	
5 16 (as Ginches	-	536	
S 17 G Girches	-	588	
5 18 Q Girches	-	416	
VW 6	1	200	
iw 7	-	296	
w.		788	
wl	-	332	
V W 7.	-	460	
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Areas



Sample Log

		Date.	
Project:			
Project Number:	Latitude:	Longitude:	

Sample ID	PID/Odor	Chloride Conc.	GPS
	_	144	
WW み . とW 名. WW 3.		508	
WW 3,	-	372	
FS 19. 6 Gindas	-	460	
5 20. @ 6 inches	_	6/2	
5 21. 6 6 inches	_	556	
-s 22. a Ginohes		556	
// S.		372	
VW 8.	_	312	1
NW 10.	-	416	
ίω 8.		200	
	 -	372	
S 20. @ 1F4		992	
5 23 @ 4 Ft	_	1157	
5 24.04FF 5 25.64FF		128	
5 25 G 4 FF	`	920	
S 26. 6 4 F4	-		
vw 4.	-	144	
w 9.	<u> </u>	2532	
5 27 @ 4F4	1-	3099	
5 28 & 4FF	-	5060	
5 29 6 4 Ft	<u> </u>	3,116	
30 Q-4Ff	ļ —	2052	
S 31 @ 4Ft		4684	
5 32 @ 4Ff	_	3,688	
5 33 @ 4 Ft		4332	
SW 9	_	508	
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Are
PINEMAIL - DAA HT SEC		2011 Interneed to be belefied - 31 41 fe 4 III-21(ff	ar 3 dample i onice, conter of comp Are



Soil Profile

Date:	
Longitude:	-103.4728985

gs)	1. 1	Des	cription	
ا کی کی ا	Caliche sand	,		
2 2-1/	Calicher Sans	1-rock		
3.				
4				
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3				
4				
36				
37				
38				
9				
10				



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
		0. 19	Caliche	-	-	-	
		2000		_	_	_	
_ 10				_	_	_	
-		·· 0					
_ _ 20		0.00		_	-	-	
			Sand] -	-	-	
- - 30				-	-	-	
_				-	-	-	
_ _ 40				-	-	-	
- 40				-	-	-	- -
		0.8	Caliche] -	-	-	Open hole. No casing installed
50 				_	-	-	ng ir
		000		_	_	_	casi
- 60		· · · O		_	_	_	<u> </u>
-		0.000			_	_	hole
- 70			Sand	_	-	-	ben /////
				-	-	-	
- 80				-	-	-	
_				-	-	-	
_ _ 90				-	-	-	
_ 90				-	-	-	
_		· : .		-	-	-	
- 100 -		· · · · · ·	Soft sandstone	1 -	-	-	
				_	_	_	
- 110 -				_	_	_	
_			Notes:				V//////
_ 120			Total Depth = 115 feet below ground surface (bgs)				
_			Lines between material types represent approximate boundaries. Actual transitions may be gradual.				
- 130			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.				
F			beginning at approximately 22 leet bys to prevent collapse of the borehole.				
_ _ 140							
F0							
-							

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

Appendix C Laboratory Analytical Reports



January 10, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: ARUMS DEER BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 01/05/23 16:50.

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



01/05/2023

Soil

Analytical Results For:

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

A I J D. ... 711

Received: 01/05/2023 Sampling Date: Reported: 01/10/2023

Sampling Type: ** (See Notes) Project Name: ARUMS DEER BOOSTER Sampling Condition: Project Number: 17251 Sample Received By: Tamara Oldaker

Project Location: **MEWBOURNE**

Sample ID: FS 1 @ 6 INCHES (H230068-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2023	ND	2.02	101	2.00	8.94	
Toluene*	<0.050	0.050	01/09/2023	ND	2.19	110	2.00	8.47	
Ethylbenzene*	<0.050	0.050	01/09/2023	ND	2.15	108	2.00	8.18	
Total Xylenes*	<0.150	0.150	01/09/2023	ND	6.63	110	6.00	7.77	
Total BTEX	<0.300	0.300	01/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127 %	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	208	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	203	102	200	6.89	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	198	99.1	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	70.7 9	² / ₆ 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.0 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

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

Analyzed By: JH

01/05/2023 01/10/2023 Sampling Date:

01/05/2023

Reported: Project Name:

Received:

BTEX 8021B

Sampling Type:

Soil ** (See Notes)

Project Number:

ARUMS DEER BOOSTER

Sampling Condition: Sample Received By:

Tamara Oldaker

Project Location:

17251 **MEWBOURNE**

mg/kg

Sample ID: FS 2 @ 6 INCHES (H230068-02)

DILX GOZID	11197	, kg	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2023	ND	2.02	101	2.00	8.94	
Toluene*	<0.050	0.050	01/09/2023	ND	2.19	110	2.00	8.47	
Ethylbenzene*	<0.050	0.050	01/09/2023	ND	2.15	108	2.00	8.18	
Total Xylenes*	<0.150	0.150	01/09/2023	ND	6.63	110	6.00	7.77	
Total BTEX	<0.300	0.300	01/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 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	48.0	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	203	102	200	6.89	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	198	99.1	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	72.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 01/05/2023 Sampling Date: 01/05/2023

Reported: 01/10/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)
Project Number: 17251 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

Sample ID: FS 3 @ 6 INCHES (H230068-03)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2023	ND	2.02	101	2.00	8.94	
Toluene*	<0.050	0.050	01/09/2023	ND	2.19	110	2.00	8.47	
Ethylbenzene*	<0.050	0.050	01/09/2023	ND	2.15	108	2.00	8.18	
Total Xylenes*	<0.150	0.150	01/09/2023	ND	6.63	110	6.00	7.77	
Total BTEX	<0.300	0.300	01/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 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	192	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	77.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/05/2023 Reported: 01/10/2023

ARUMS DEER BOOSTER

Project Number: 17251

Project Name:

Project Location: MEWBOURNE

Sampling Date: 01/05/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FS 4 @ 6 INCHES (H230068-04)

BTEX 8021B	mg	/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2023	ND	2.02	101	2.00	8.94	
Toluene*	<0.050	0.050	01/09/2023	ND	2.19	110	2.00	8.47	
Ethylbenzene*	<0.050	0.050	01/09/2023	ND	2.15	108	2.00	8.18	
Total Xylenes*	<0.150	0.150	01/09/2023	ND	6.63	110	6.00	7.77	
Total BTEX	<0.300	0.300	01/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 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	288	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	75.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.7	% 49.1-14	8						

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01/05/2023

** (See Notes)

Tamara Oldaker

Soil

Analytical Results For:

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

Received: 01/05/2023 Reported: 01/10/2023

01/05/2023 Sampling Date:
01/10/2023 Sampling Type:
ARUMS DEER BOOSTER Sampling Condition:

Sample Received By:

Project Name: ARUMS
Project Number: 17251

Project Location: MEWBOURNE

Sample ID: FS 5 @ 6 INCHES (H230068-05)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2023	ND	2.02	101	2.00	8.94	
Toluene*	<0.050	0.050	01/09/2023	ND	2.19	110	2.00	8.47	
Ethylbenzene*	<0.050	0.050	01/09/2023	ND	2.15	108	2.00	8.18	
Total Xylenes*	<0.150	0.150	01/09/2023	ND	6.63	110	6.00	7.77	
Total BTEX	<0.300	0.300	01/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 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	96.0	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	82.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/05/2023 Reported: 01/10/2023

01/10/2023 Sampling Type: So ARUMS DEER BOOSTER Sampling Condition: **

Project Name: ARUMS DEER BOOSTER
Project Number: 17251

Project Location: MEWBOURNE

Sampling Date: 01/05/2023 Sampling Type: Soil

Sample Received By:

** (See Notes)
Tamara Oldaker

Sample ID: FS 6 @ 6 INCHES (H230068-06)

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	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 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	48.0	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	82.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.3	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/05/2023 Reported: 01/10/2023

Project Name: ARUMS DEER BOOSTER Project Number: 17251

Project Location: **MEWBOURNE** Sampling Date: 01/05/2023

Sampling Type:

Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker

Soil

Sample ID: FS 7 @ 6 INCHES (H230068-07)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

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Analytical Results For:

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

Analyzed By: JH

Received: 01/05/2023 Reported: 01/10/2023

Project Name: ARUMS DEER BOOSTER
Project Number: 17251

mg/kg

Project Location: MEWBOURNE

Sampling Date: 01/05/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FS 8 @ 6 INCHES (H230068-08)

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	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	79.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.2	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/05/2023 Reported: 01/10/2023

ARUMS DEER BOOSTER

Project Name: Project Number: 17251

Project Location: **MEWBOURNE** Sampling Date: 01/05/2023

Sampling Type: Soil Sampling Condition:

** (See Notes) Sample Received By: Tamara Oldaker

Sample ID: FS 9 @ 6 INCHES (H230068-09)

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	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 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	80.0	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	78.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/05/2023

01/10/2023

MEWBOURNE

Sampling Date: Sampling Type:

Sampling Condition:

Project Name: ARUMS DEER BOOSTER
Project Number: 17251

Reported:

Project Location:

17251 Sample Received By:

Sample Received By: Tamara Oldaker

01/05/2023

** (See Notes)

Soil

Sample ID: FS 10 @ 6 INCHES (H230068-10)

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	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 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	112	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

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Analytical Results For:

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

Fax To:

Received: 01/05/2023 Sampling Date: 01/05/2023

Reported: 01/10/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)
Project Number: 17251 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE

Sample ID: FS 11 @ 6 INCHES (H230068-11)

RTFY 8021R

B1EX 8021B	mg/	NY .	Allalyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 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	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	83.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/05/2023 Reported: 01/10/2023

ARUMS DEER BOOSTER

Project Name: Project Number: 17251

Project Location: **MEWBOURNE** Sampling Date: 01/05/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By:

Tamara Oldaker

Sample ID: FS 12 @ 6 INCHES (H230068-12)

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	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 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	320	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	83.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

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Analytical Results For:

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

Fax To:

Received: 01/05/2023 Sampling Date: 01/05/2023

Reported: 01/10/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)
Project Number: 17251 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MEWBOURNE

Sample ID: FS 13 @ 6 INCHES (H230068-13)

RTFY 8021R

B1EX 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	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 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	48.0	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	8						

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Analytical Results For:

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

Fax To:

Received: 01/05/2023 Sampling Date: 01/05/2023
Reported: 01/10/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)
Project Number: 17251 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

Sample ID: FS 14 @ 6 INCHES (H230068-14)

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	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	77.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	18						

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Analytical Results For:

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

Received: 01/05/2023 Reported: 01/10/2023

01/10/2023 Sampling Type: ARUMS DEER BOOSTER Sampling Condition:

Project Name: ARUMS DEER BO Project Number: 17251

Project Location: MEWBOURNE

Sampling Date: 01/05/2023

Sample Received By:

Sampling Type: Soil

** (See Notes)
Tamara Oldaker

Sample ID: FS 15 @ 6 INCHES (H230068-15)

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	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	81.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.4	% 49.1-14	8						

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Tamara Oldaker

Analytical Results For:

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

Received: 01/05/2023 Reported: 01/10/2023

 01/05/2023
 Sampling Date:
 01/05/2023

 01/10/2023
 Sampling Type:
 Soil

 ARUMS DEER BOOSTER
 Sampling Condition:
 ** (See Notes)

Sample Received By:

Project Name: ARUMS DEER BOOSTER
Project Number: 17251

Project Location: MEWBOURNE

Sample ID: NW 1 (H230068-16)

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	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 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	208	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	67.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.0	% 49.1-14	8						

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01/05/2023

** (See Notes)

Tamara Oldaker

Soil

Analytical Results For:

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

Applyzod By: 14

Sampling Date:

Sample Received By:

Received: 01/05/2023 Reported: 01/10/2023

01/10/2023 Sampling Type: ARUMS DEER BOOSTER Sampling Condition:

Project Name: ARUMS DEER BOOSTER
Project Number: 17251

ma/ka

Project Location: MEWBOURNE

Sample ID: SW 1 (H230068-17)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 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	16.0	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	80.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.1	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/05/2023 Reported: 01/10/2023

ARUMS DEER BOOSTER

Project Name: ARUMS
Project Number: 17251

Project Location: MEWBOURNE

Sampling Date: 01/05/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: NW 2 (H230068-18)

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	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 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	16.0	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	75.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/05/2023 Reported: 01/10/2023

ARUMS DEER BOOSTER

Project Number: 17251
Project Location: MEWBOURNE

Sampling Date: 01/05/2023

Sampling Type: Soil
Sampling Condition: ** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: WW 1 (H230068-19)

Project Name:

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	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 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	144	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	81.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

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Analytical Results For:

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

Analyzed By: JH

Received: 01/05/2023 Reported: 01/10/2023

ARUMS DEER BOOSTER

Project Number: 17251 Project Location: **MEWBOURNE**

mg/kg

Sampling Date: 01/05/2023

Sampling Type: Soil Sampling Condition:

** (See Notes) Sample Received By: Tamara Oldaker

Sample ID: SW 2 (H230068-20)

Project Name:

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	01/08/2023	ND	2.01	101	2.00	3.14	
Toluene*	<0.050	0.050	01/08/2023	ND	2.18	109	2.00	3.46	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.15	107	2.00	3.61	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.62	110	6.00	3.84	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 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	176	16.0	01/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	205	102	200	4.57	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	192	96.0	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					
Surrogate: 1-Chlorooctane	82.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

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

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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

RDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name				al & Safe		ions	, Inc				T			BII	LL:	TO						AN/	LYS	IS F	EQU	EST			
Project Manager	r. Las	ice	Cran	Shau	/						P.	0. 1	k:								T	T			T				
Address: P.O.	. Box 30	1									C	omp	any	: 7	neu	ubo	vine			1									1 1
City: Lovingto	on			State:	NM	Zip	: 88	260			A	ttn:	Let	F															
Phone #: (575	5) 396-23	378		Fax #:	(575) 3	96-1	429				A	ddre	85:																
Project #: /7	25/			Projec	t Owner	0					Ci	ity:							_	-									
Project Name:	ARUP	15 E	Deer	Boo	Ster						St	tate:			Zip:			9	5W	18									
Project Location	1:										P	hone	e #:					Chloride	TPH (8015M)	BTEX (8021B)									
Sampler Name:	Auror	n Ki	55								Fa	ax #:						등	표	X									
FOR LAB USE ONLY									MAT	RIX		PR	ESE	RV.	SA	AMPLI	NG		F	6									
Lab I.D. H230068		Sam	ple I.	.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	D	ATE	TIME												
1	FS	1	(a)	bine	hes	X			X			Т			1-5	-22		X	X	1									
2	FS	2	1			1			1						1			1	1	1									
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5	FS	5	-	-		1		1	44	-	-	1	-					11	4	H	+	-	+	+	+	+	-	-	-
6	F5	7	+			H		-	1	+	+	-	-	\vdash			-	+	+	H	+	+	+	+	+	+-	+-	-	-
7	FS	-1	-	-		\parallel		+	+	+	+	+	-	\vdash			-	+	+	++	+	+	+	+	+	+	-	-	-
8	FS	8	1	1		H	-	+	+	+	+	+	-	\vdash	,		-	-	+	H	+	+	+	+	+	+	+	-	-
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PLEASE NOTE: Liability an analyses. All claims includir service. In no event shall Co affiliates or successors strial Relinquished By	ardinal be liabling out of or rel y: 7 _	le for inciden	tal or conse	of services he	erounder by C	withou ardine	ut illmit: I, rega	ition, busi	nees inte shether s	rruption	s, loss	of use,	or los	e of pro	offits incu	arred by o	client, its subsidir	ice. esult: ilt:	U Ye		□ No	_	'I Phor						
Refinquished By Delivered By: Sampler - UPS	(Circle		: /8	Time: Date: Time:	/	H-C	///3	Co	mple ool I	afact				ECK (Initi	-	Y:	Please 6	email i	result	s to	pm@	eteche	env.co	om.					

FORM-006 Revision 1.0

Received by OCD: 3/14/2023 11:28:30 AM

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Company Name		mental & Safety Soluti		Inc							BIL	LL	TO						AN/	LYS	IS R	EQUI	ST		
Project Manager	" Lance Cre	enshaw						P.(0. #	:								T	T	T		T			
	. Box 301							Co	mpa	any	: 70	Men	bou	rne											
City: Lovingto	on	State: NM	Zip:	882	260						F									1			1		
Phone #: (575	5) 396-2378	Fax #: (575) 39	96-1	429					dre	-					1										
Project #: 17	151	Project Owner						Cit	y:						1		-		1						
		er Booste	r						ate:			Zip:				€ W	18			1					
Project Location			-						one						Chloride	TPH (8015M)	BTEX (8021B)			1					
Sampler Name:	Aaron Na	às							x #:						Ĕ	H	X								
FOR LAB USE ONLY	na or or					MATRI	X		-	ESE	RV.	S	AMPL	NG	1	무	F				1				
Lab I.D. <i>H23006</i> 8	Samp	le I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	D	ATE	TIME											
11	FS 11	(a) binches	X			X						1-5	1-22		X	X	V								
12	FS 12	a 6 inches	X			X									X	X	X								
13	FS 13	@ 6 inches	X			X									X	X	X								
14	FS 14		X			X									1	X	X				1	1	1	_	
15	FS 15	@ Ginches	X			X						4			X	X	X				1	_	-		
16	NW 1		¥			X							U		X	XX	X		1	-	1	-			
17	SW 1		X			X						1-6	5-22		X	K)		-	1	-	-	-	-	
18	NW2.		X			1						_	1		X	x	1	/	-	-	1	-	-		
19	wwl.		y			٧							<u>U</u>		X	×	13	4	1	1	_	-	-	_	
70	Sw2.		<			X							200		1	V	1								
enelyses. All claims includi service. In no event shall C efficience or successors aring Relinquished By Advandable By Reflinquished By	ng those for negligence and an ardinal be listle for incidental o ng out of or related to the perfo y:	and diserts exclusive remedy for at yother cause wholesoever shall be do to consequented damages, including immence of services hersunder by C Pate: Date: Date: Time:	Re	d waive it limits , regar	ed uniese maton, busine release of who ved By:	ade in writers at the such at	ing an ptione, h claim	d receives on its best	ived b	or ton on an	dired we so of pro-	MED E	O days after curred by a stated re	r completion of Hent, its subsid	the application on the second of the second	□ Ye	95	□ No □ No	Add	'i Phon 'i Fax #	ŧ.				
Sampler - UPS	- Bus - Other:	18.1:/1	7.	5		Yes .	Ye	5				lais)													

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Released to Imaging: 3/21/2023 1:12:27 PM



January 10, 2023

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

RE: ARUMS DEER BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 01/06/23 15:08.

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

01/06/2023

Sampling Date: Sampling Type: 01/06/2023

Reported: Project Name:

Received:

01/10/2023

ARUMS DEER BOOSTER

Sampling Condition:

Soil ** (See Notes)

Project Number:

17251

Sample Received By:

Shalyn Rodriguez

Project Location:

MEWBOURNE

Sample ID: SW 3. (H230076-01)

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	01/08/2023	ND	2.03	101	2.00	6.92	
Toluene*	0.084	0.050	01/08/2023	ND	2.22	111	2.00	7.77	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.19	110	2.00	7.64	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.82	114	6.00	8.39	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 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	16.0	16.0	01/09/2023	ND	448	112	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	01/09/2023	ND	189	94.6	200	1.61	
DRO >C10-C28*	<10.0	10.0	01/09/2023	ND	178	89.0	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/09/2023	ND					
Surrogate: 1-Chlorooctane	77.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 01/06/2023 Reported: 01/10/2023

ARUMS DEER BOOSTER

Project Name: ARUMS
Project Number: 17251

Project Location: MEWBOURNE

Sampling Date: 01/06/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: SW 4. (H230076-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	6.92	
Toluene*	<0.050	0.050	01/08/2023	ND	2.22	111	2.00	7.77	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.19	110	2.00	7.64	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.82	114	6.00	8.39	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 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	32.0	16.0	01/09/2023	ND	448	112	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	01/09/2023	ND	189	94.6	200	1.61	
DRO >C10-C28*	<10.0	10.0	01/09/2023	ND	178	89.0	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/09/2023	ND					
Surrogate: 1-Chlorooctane	73.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 01/06/2023 Sampling Date: 01/06/2023
Reported: 01/10/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)
Project Number: 17251 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE

Sample ID: SW 5. (H230076-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	6.92	
Toluene*	<0.050	0.050	01/08/2023	ND	2.22	111	2.00	7.77	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.19	110	2.00	7.64	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.82	114	6.00	8.39	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 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	01/09/2023	ND	448	112	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	01/09/2023	ND	189	94.6	200	1.61	
DRO >C10-C28*	<10.0	10.0	01/09/2023	ND	178	89.0	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/09/2023	ND					
Surrogate: 1-Chlorooctane	77.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.3	% 49.1-14	18						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 01/06/2023 Sampling Date: 01/06/2023

Reported: 01/10/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)
Project Number: 17251 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE

Sample ID: SW 6. (H230076-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	6.92	
Toluene*	<0.050	0.050	01/08/2023	ND	2.22	111	2.00	7.77	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.19	110	2.00	7.64	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.82	114	6.00	8.39	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/09/2023	ND	448	112	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	01/09/2023	ND	189	94.6	200	1.61	
DRO >C10-C28*	<10.0	10.0	01/09/2023	ND	178	89.0	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/09/2023	ND					
Surrogate: 1-Chlorooctane	69.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 01/06/2023 Sampling Date: 01/06/2023

Reported: 01/10/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)

Project Number: 17251 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MEWBOURNE

mg/kg

Sample ID: SW 7. (H230076-05)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	6.92	
Toluene*	<0.050	0.050	01/08/2023	ND	2.22	111	2.00	7.77	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.19	110	2.00	7.64	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.82	114	6.00	8.39	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/09/2023	ND	448	112	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	01/09/2023	ND	189	94.6	200	1.61	
DRO >C10-C28*	<10.0	10.0	01/09/2023	ND	178	89.0	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/09/2023	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.5	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Applyzod By: 14

ma/ka

Received: 01/06/2023 Reported: 01/10/2023

Project Name: ARUMS DEER BOOSTER

Project Number: 17251

Project Location: MEWBOURNE

Sampling Date: 01/06/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)

Sample Received By: Shalyn Rodriguez

Sample ID: NW 3. (H230076-06)

RTFY 8021R

BIEX 8021B	mg	/ Kg	Analyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	6.92	
Toluene*	<0.050	0.050	01/08/2023	ND	2.22	111	2.00	7.77	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.19	110	2.00	7.64	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.82	114	6.00	8.39	
Total BTEX	<0.300	0.300	01/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 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	128	16.0	01/09/2023	ND	448	112	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	01/09/2023	ND	189	94.6	200	1.61	
DRO >C10-C28*	<10.0	10.0	01/09/2023	ND	178	89.0	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/09/2023	ND					
Surrogate: 1-Chlorooctane	74.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 01/06/2023 Reported: 01/10/2023

ARUMS DEER BOOSTER

Project Number: 17251

Project Location: MEWBOURNE

Sampling Date: 01/06/2023

Sampling Type: Soil
Sampling Condition: ** (See Notes)

Sample Received By: Shalyn Rodriguez

Sample ID: NW 4. (H230076-07)

Project Name:

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	01/09/2023	ND	2.11	105	2.00	4.88	
Toluene*	<0.050	0.050	01/09/2023	ND	2.11	105	2.00	4.61	
Ethylbenzene*	< 0.050	0.050	01/09/2023	ND	2.11	105	2.00	5.33	
Total Xylenes*	<0.150	0.150	01/09/2023	ND	6.39	106	6.00	5.53	
Total BTEX	<0.300	0.300	01/09/2023	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	160	16.0	01/09/2023	ND	448	112	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	01/09/2023	ND	189	94.6	200	1.61	
DRO >C10-C28*	<10.0	10.0	01/09/2023	ND	178	89.0	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/09/2023	ND					
Surrogate: 1-Chlorooctane	65.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.8	% 49.1-14	8						

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Analytical Results For:

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

Fax To:

Received: 01/06/2023 Sampling Date: 01/06/2023

Reported: 01/10/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)
Project Number: 17251 Sample Received By: Shalyn Rodriguez

Analyzed By: JH/

Project Location: MEWBOURNE

mg/kg

Sample ID: NW 5. (H230076-08)

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	01/09/2023	ND	2.11	105	2.00	4.88	
Toluene*	<0.050	0.050	01/09/2023	ND	2.11	105	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/09/2023	ND	2.11	105	2.00	5.33	
Total Xylenes*	<0.150	0.150	01/09/2023	ND	6.39	106	6.00	5.53	
Total BTEX	<0.300	0.300	01/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/09/2023	ND	448	112	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	01/09/2023	ND	189	94.6	200	1.61	
DRO >C10-C28*	<10.0	10.0	01/09/2023	ND	178	89.0	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/09/2023	ND					
Surrogate: 1-Chlorooctane	66.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.9	% 49.1-14	8						

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Analytical Results For:

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

Fax To:

Received: 01/06/2023 Sampling Date: 01/06/2023

Reported: 01/10/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)
Project Number: 17251 Sample Received By: Shalyn Rodriguez

Analyzed By: 1H /

Project Location: MEWBOURNE

ma/ka

Sample ID: NW 6. (H230076-09)

RTFY 8021R

B1EX 8021B	mg,	кg	Апануге	а ву: Јн/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2023	ND	2.11	105	2.00	4.88	
Toluene*	<0.050	0.050	01/09/2023	ND	2.11	105	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/09/2023	ND	2.11	105	2.00	5.33	
Total Xylenes*	<0.150	0.150	01/09/2023	ND	6.39	106	6.00	5.53	
Total BTEX	<0.300	0.300	01/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	160	16.0	01/09/2023	ND	448	112	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	01/09/2023	ND	189	94.6	200	1.61	
DRO >C10-C28*	<10.0	10.0	01/09/2023	ND	178	89.0	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/09/2023	ND					
Surrogate: 1-Chlorooctane	78.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/06/2023 Reported: 01/10/2023

01/10/2023 ARUMS DEER BOOSTER

Project Name: ARUMS
Project Number: 17251

Project Location: MEWBOURNE

Sampling Date: 01/06/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: FS 16 @ 6INCHES (H230076-10)

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	01/09/2023	ND	2.11	105	2.00	4.88	
Toluene*	<0.050	0.050	01/09/2023	ND	2.11	105	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/09/2023	ND	2.11	105	2.00	5.33	
Total Xylenes*	<0.150	0.150	01/09/2023	ND	6.39	106	6.00	5.53	
Total BTEX	<0.300	0.300	01/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	112	16.0	01/09/2023	ND	448	112	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	01/09/2023	ND	189	94.6	200	1.61	
DRO >C10-C28*	<10.0	10.0	01/09/2023	ND	178	89.0	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	01/09/2023	ND					
Surrogate: 1-Chlorooctane	71.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.5	% 49.1-14	8						

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Shalyn Rodriguez

Analytical Results For:

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

Received: 01/06/2023 Reported: 01/10/2023

 01/06/2023
 Sampling Date:
 01/06/2023

 01/10/2023
 Sampling Type:
 Soil

 ARUMS DEER BOOSTER
 Sampling Condition:
 ** (See Notes)

Sample Received By:

Project Name: ARUMS DEER BOOSTER
Project Number: 17251

Project Location: MEWBOURNE

Sample ID: FS 17 @ 6INCHES (H230076-11)

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	01/09/2023	ND	2.11	105	2.00	4.88	
Toluene*	<0.050	0.050	01/09/2023	ND	2.11	105	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/09/2023	ND	2.11	105	2.00	5.33	
Total Xylenes*	<0.150	0.150	01/09/2023	ND	6.39	106	6.00	5.53	
Total BTEX	<0.300	0.300	01/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/09/2023	ND	448	112	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	01/09/2023	ND	193	96.4	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/09/2023	ND	189	94.3	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	01/09/2023	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Analytical Results For:

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

Fax To:

Received: 01/06/2023 Sampling Date: 01/06/2023

Reported: 01/10/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes) Sample Received By: Project Number: 17251 Shalyn Rodriguez

Project Location: **MEWBOURNE**

Sample ID: FS 18 @ 6INCHES (H230076-12)

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	01/09/2023	ND	2.11	105	2.00	4.88	
Toluene*	<0.050	0.050	01/09/2023	ND	2.11	105	2.00	4.61	
Ethylbenzene*	<0.050	0.050	01/09/2023	ND	2.11	105	2.00	5.33	
Total Xylenes*	<0.150	0.150	01/09/2023	ND	6.39	106	6.00	5.53	
Total BTEX	<0.300	0.300	01/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 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	192	16.0	01/09/2023	ND	448	112	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	01/09/2023	ND	193	96.4	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/09/2023	ND	189	94.3	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	01/09/2023	ND					
Surrogate: 1-Chlorooctane	88.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

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

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Received by OCD: 3/14/2023 11:28:30 AM

RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575																						
Company Name	79	-	, In	C.					-	BIL	LL TO						ANA	LYS	SR	EQUE	ST	 	
Project Manage	r. Jarce Crenshaw						P.	0. #	k:														
Address: P.O	. Box 301						Co	omp	any	: 7	newbo	une											
City: Lovingto	on State:	NM Zip	: 88	260			At	tn:	ge,	FF													
Phone #: (57	5) 396-2378 Fax #:	(575) 396-	429)				idre					1					1					
Project #: 17	25/ Project	t Owner:					Ci	ty:			_		1										
Project Name:	ARUMS Deer Boo	ster					St	ate:			Zip:			(W)	18			1					
Project Location		5101					Ph	one	9#:		•		문	301	80	1							
Sampler Name:	Aaron Rios							x #:	_				Chloride	TPH (8015M)	BTEX (8021B)			1					
FOR LAB USE ONLY	THE TOTAL PROPERTY OF THE PARTY		Г		MATE	ux.		_	ESE	RV.	SAMPL	ING	1	F	FB								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
1	Sw 3,	X	Г		X						1-6-23		X	X	X								
2	Sw 4.	X			X						1		X	×	X								
3	Sw 5.	×			X								×	X	X								
4	Sw 6.	×			X								X	×	X								
5	Sw 7.	X			X								Y	4	X								
4	Nw 3.	X			Y								×	X	X								
	NW 4.	X			X								X	×	X								
8	NW 5.	X			X								X	X	X								
9	NW 6.	X			X					Ц	111		X	X	X								
10	FS 16 @ Ginch				x						V		X	X	X								
service. In no event shall C	nd Demeges. Cardinel's liability and client's exclusive ag those for negligence and any other cause whateo surdinal be liable for incidental or consequental dem ing out of or related to the performance of services in	nges, including withour erounder by Cardina	ut limii I, roge	ation, busine rdiess of wh	es leterr	uptions	, loss o	f use,	or loss	of pro	ills incurred by	client, its subsidis	uina, ioo.	ole Ye		No	Add	Phone	4-				
Asica Aic Relinquished B	Time	508	<	ved By:	01	X	K	2 (Ty	u	ay	Fax Resu REMARK	lt: S:	□ Ye	s 🗆	No.	Add'I	Fax #:		-			
	- Bus - Other:	100 c	13	Sam	ple C I In Yes [No [tact		<		ECKI (Initi	ED BY:	Please 6	email r	esuits	to pi	m@e	techer	iv.cor	n.				

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

Page 15 of 16

Page 16 of 16

Received by OCD: 3/14/2023 11:28:30 AM

RDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	nmental & Sarety Solu	uons	i, in	C.						E	51 L	LIU						ANA	LYS	5 K	EQUE	:51		
Project Manager: Lance Ci	cnshaw						_	P.O.																
Address: P.O. Box 301								Con	npa	ny:	m	rebou	ne											
City: Lovington	State: NM	Zip	:88	260				Attn	:2	eFI	7													
Phone #: (575) 396-2378	Fax #: (575) 3	96-1	429)				Add	res	s :														
Project #: 1725/	Project Owne	r:						City	:						_	-								
Project Name: ARUMS D	eer Booster							Stat	e:		Z	ip:			TPH (8015M)	BTEX (8021B)								
Project Location:								Pho	ne	#:				Chloride	801	80								
Sampler Name: Auson Rio	5							Fax	#:					등	E	Ĭ,								
FOR LAB USE ONLY			Г		M.A	TRE	X	F	RE	SER	V.	SAMPL	ING	1	1	B				1				
Lab I.D. Sam	ple I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
	@ binches	X			×	_		Ť				-6-23		X	X	X								
	B GINCHES	X			-	(-6-23		X	X	X								
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PLEASE NOTE: Liability and Damages, Cardina's liabil analyses, All claims including those for negligence and	any other cause whatsoever shall be	deeme	d wah	ed unle	es mede	in well	ing and	receive	ed by C	Cardin	al with	in 30 days aft	or completion of t	the applica	nizio									
service. In no event shall Cardinal be liable for incidents affiliates or successors arising out of or related to the pe	rformance of services hereunder by (Cardine	i, rega	rdiess o	of whothe	r such	claim is	besed	upon	loes o	of the at	bove stated re	wasons or otherw	100.										
Relinquished By:	Date: -23	Re	Cel	ved	By:	1	,	^			_		Phone Re Fax Resu		O Y		No No		Phone				 _	
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FORM-006 Revision 1.0

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



January 12, 2023

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

RE: ARUMS DEER BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 01/10/23 16:48.

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:

Applyand By 1H /

Received: 01/10/2023 Reported: 01/12/2023

ARUMS DEER BOOSTER

ma/ka

Project Name: ARUMS DEER BOOS

Project Number: 17251
Project Location: MEWBOURNE

Sampling Date: 01/10/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: NW 7. (H230130-01)

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	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	144	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 01/10/2023 Reported: 01/12/2023

ARUMS DEER BOOSTER

Project Name: ARUMS I Project Number: 17251

Project Location: MEWBOURNE

Sampling Date: 01/10/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: NW 8. (H230130-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	49.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	52.5	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Analyzed By: JH/

Received: 01/10/2023 Reported: 01/12/2023

ARUMS DEER BOOSTER

mg/kg

Project Name: ARUMS
Project Number: 17251

Project Location: MEWBOURNE

Sampling Date: 01/10/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: NW 9. (H230130-03)

BTEX 8021B

DIEX GOZID	11197	ng .	Alldiyac	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 01/10/2023 Reported:

01/12/2023 ARUMS DEER BOOSTER

Project Name: Project Number: 17251

MEWBOURNE Project Location:

Sampling Date: 01/10/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By: Shalyn Rodriguez

Sample ID: NW 10. (H230130-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	288	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	78.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.1	% 49.1-14	8						

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Analytical Results For:

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

Fax To:

Received: 01/10/2023 Sampling Date: 01/10/2023

Reported: 01/12/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)
Project Number: 17251 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE

Sample ID: EW 1. (H230130-05)

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	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	304	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	80.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/10/2023 Reported: 01/12/2023

ARUMS DEER BOOSTER

Project Name: Project Number: 17251

Project Location: **MEWBOURNE** Sampling Date: 01/10/2023

Sampling Type: Soil Sampling Condition: ** (See Notes)

Sample Received By: Shalyn Rodriguez

Sample ID: EW 2. (H230130-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 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	80.0	16.0	01/11/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	86.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.6	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 01/10/2023 Reported: 01/12/2023

ARUMS DEER BOOSTER

Project Name: Project Number: 17251 **MEWBOURNE**

Project Location:

Sampling Date: 01/10/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes) Sample Received By: Shalyn Rodriguez

Sample ID: SW 8. (H230130-07)

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	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	32.0	16.0	01/11/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



** (See Notes)

Shalyn Rodriguez

Analytical Results For:

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

Received: 01/10/2023 Reported: 01/12/2023

 01/10/2023
 Sampling Date:
 01/10/2023

 01/12/2023
 Sampling Type:
 Soil

Sampling Condition:

Sample Received By:

Project Name: ARUMS DEER BOOSTER
Project Number: 17251

Project Location: MEWBOURNE

Sample ID: FS 19. @ 6INCHES (H230130-08)

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	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	128	16.0	01/11/2023	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/10/2023 Reported: 01/12/2023 Sampling Date: 01/10/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER

MEWBOURNE

Sampling Condition: ** (See Notes)

Project Number: 17251

Sample Received By: Shalyn Rodriguez

Sample ID: FS 20. @ 1FT (H230130-09)

Project Location:

BTEX 8021B	mg/	kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	< 0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	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	592	16.0	01/11/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	85.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

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01/10/2023

** (See Notes)

Shalyn Rodriguez

Soil

Analytical Results For:

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

Received: 01/10/2023 Reported: 01/12/2023

01/12/2023 Sampling Type:
ARUMS DEER BOOSTER Sampling Condition:

Sampling Date:

Sample Received By:

Project Name: ARUMS DEER BOOSTER
Project Number: 17251

Project Location: MEWBOURNE

Sample ID: WW 2. (H230130-10)

BTEX 8021B	mg,	/kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/11/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	72.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.3	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/10/2023 Reported: 01/12/2023

ARUMS DEER BOOSTER

Project Name: ARUMS
Project Number: 17251

Project Location: MEWBOURNE

Sampling Date: 01/10/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: WW 3. (H230130-11)

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	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	112	16.0	01/11/2023	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	18						

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Analytical Results For:

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

Fax To:

Received: 01/10/2023 Sampling Date: 01/10/2023

Reported: 01/12/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes) Project Number: 17251 Sample Received By: Shalyn Rodriguez

MEWBOURNE Project Location:

Sample ID: WW 4. (H230130-12)

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	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	48.0	16.0	01/11/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	101 5	48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	6 49.1-14	8						

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Analytical Results For:

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

Received: 01/10/2023 Reported: 01/12/2023

Project Name: ARUMS DEER BOOSTER

Project Number: 17251 Project Location: **MEWBOURNE** Sampling Date: 01/10/2023

Sampling Type: Soil Sampling Condition: ** (See Notes)

Sample Received By: Shalyn Rodriguez

Sample ID: FS 21. @ 6INCHES (H230130-13)

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	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 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	80.0	16.0	01/11/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	6 49.1-14	8						

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01/10/2023

Soil

Analytical Results For:

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

Received: 01/10/2023 Sampling Date:
Reported: 01/12/2023 Sampling Type:

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)
Project Number: 17251 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE

Sample ID: FS 22. @ 6INCHES (H230130-14)

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	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	01/11/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

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Analytical Results For:

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

Fax To:

Received: 01/10/2023 Sampling Date: 01/10/2023

Reported: 01/12/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes) Sample Received By: Project Number: 17251 Shalyn Rodriguez

Project Location: **MEWBOURNE**

Sample ID: FS 23. @ 4FT (H230130-15)

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	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	1440	16.0	01/11/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	94.4 % 48.2-134		4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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01/10/2023

** (See Notes)

Shalyn Rodriguez

Soil

Analytical Results For:

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

Received: 01/10/2023 Reported: 01/12/2023

01/12/2023 Sampling Type:
ARUMS DEER BOOSTER Sampling Condition:

Sampling Date:

Sample Received By:

Project Name: ARUMS I Project Number: 17251

Project Location: MEWBOURNE

Sample ID: FS 24. @ 4FT (H230130-16)

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	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050 0.050		01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150 0.150		01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	1100	16.0	01/11/2023	ND	400	100	400	7.69	
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	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	82.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/10/2023 Sampling Date: 01/10/2023
Reported: 01/12/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)
Project Number: 17251 Sample Received By: Shalyn Rodriguez

Project Location: MEWBOURNE

Sample ID: FS 25. @ 4FT (H230130-17)

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	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050 0.050		01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150 0.150		01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	01/11/2023	ND	400	100	400	7.69	
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	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/10/2023 Reported: 01/12/2023

ARUMS DEER BOOSTER

Project Name: ARUMS
Project Number: 17251

Project Location: MEWBOURNE

Sampling Date: 01/10/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: FS 26. @ 4FT (H230130-18)

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	01/12/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	1120	16.0	01/11/2023	ND	400	100	400	7.69	
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	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	84.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.7	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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Page 21 of 22

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 8824

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		st Marland			
) 393-2326			
lama	Eto	ob Environe	nontal 9 (Coloby C	Coludia

Company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Lance Cren Shaw Address: P.O. Box 301 City: Lovington State: NM Zip: 88260 Phone #: (575) 396-2378 Fax #: (575) 396-1429	P.O. #: Company: Mewbourne Attn: JEFF Address:	
Project #: /725/ Project Owner:	City:	
Project Name: ARUMS Deer Booster	State: Zip:	Chloride TPH (8015M) BTEX (8021B)
Project Location:	Phone #:	H (8015
Sampler Name: Aaron Rics	Fax #:	[5 표 🎽
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	PRESERV. SAMPLING OTHER: OTHER: OTHER: TIME	
I NW 7. X X	1-10-23	XXX
2 NW 8. 3 NW 9.	1	
4 NW 10.		
6 Ew 2.		
7 Sw 8. 8 FS 19. 60 6inches		
9 FS 25. 6. (Ft		
10 200 2		
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Sampler - UPS - Bus - Other:	es	

FORM-006 Revision 1.0

Received by OCD: 3/14/2023 11:28:30 AM

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

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

Company Name	: Etech Environn	nental & Safety Solut		, Inc	ò.	_	T			BIL	LL TO						ANAL	YSIS	RE	QUE	ST		٦
Project Manage	Lance C	renshau					P	0. 1															٦
	. Box 301						c	omp	any	1: 49	newb	-IM E											1
City: Lovingto	on	State: NM	Zlp	: 88	260		_	ttn:	J	eF	-												1
Phone #: (57:	5) 396-2378	Fax #: (575) 3	96-1	429		_		ddre	188:	-11													1
Project #: 17	15/	Project Owner	:					ity:															1
Project Name:	ARIMC D	er Boste						tate:		-	Zip:			E	18)								١
Project Location	n.	cr baste	_						_		zip.	-	Chloride	TPH (8015M)	BTEX (8021B)								-
Sampler Name:		C		_				hone					울	8	×		1						1
FOR LAB USE ONLY	HOTUR KIL)		1	MA*	RIX	_	PR	ESE	FRV	SAMPLI	NG	0	Ē	E								-
Lab I.D.	Sampl	e i.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL		SLUDGE OTHER.	SE:			DATE	TIME				,							
11	WW 3.		X		X			T			1-10-23		X	X	X								٦
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17	FS 23 FS 25	@ 4 Ft	V		×	П		t	T		V		V	X	×								П
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							4				-												
analyses. All claims include service. In no event shall convert shall conflicted on successors and Relinquished B	ing those for negligence and any serdinal be liable for incidental or ing out of or related to the perior y: US)	and client's exclusive remedy for a other cause whateoever shall be consequented damages, including mence of services hereunder by C Date: Time: L22 C-O.	Re	d walve ut limit i, regardeceive	ed unitees made in a suite of the suite of t	Con	g and recover, toes taken is b	calved to of use, seed up	or los	referred we no of promy of the	inhin 30 days affar office incurred by c above stated re	r completion of 9 Sent, its subsidier	no application, inc. suit: it: 5:	□ Ye	S	No No	Add'l I						
Sampler - UPS	- Bus - Other:	20.6: #	11	3	Cool Yes	Intak	Yes			(Ments	32					. 7							

FORM-006 Revision 1.0

Received by OCD: 3/14/2023 11:28:30 AM



January 16, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions
2617 W MARLAND

HOBBS, NM 88240

RE: ARUMS DEER BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 01/11/23 10:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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: 01/11/2023 Sampling Date: 01/11/2023
Reported: 01/16/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)
Project Number: 17251 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

Sample ID: FS 27 . @ 4FT (H230135-01)

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	01/12/2023	ND	1.97	98.7	2.00	3.69	
Toluene*	<0.050	0.050	01/12/2023	ND	2.03	102	2.00	1.05	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.02	101	2.00	1.84	
Total Xylenes*	<0.150 0.150		01/12/2023	ND	6.12	102	6.00	1.67	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	5840	16.0	01/11/2023	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	01/12/2023	ND	175	87.5	200	12.4	
DRO >C10-C28*	13.6	10.0	01/12/2023	ND	166	82.8	200	17.8	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	87.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

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

Analyzed By: JH/

Received: 01/11/2023 Reported: 01/16/2023

ARUMS DEER BOOSTER

Project Number: 17251

Project Name:

BTEX 8021B

Project Location: MEWBOURNE

Sampling Date: 01/11/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FS 28. @ 4FT (H230135-02)

DIEX GOZID	iiig/	, kg	Allulyzo	.u Dy. 3117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.97	98.7	2.00	3.69	
Toluene*	<0.050	0.050	01/12/2023	ND	2.03	102	2.00	1.05	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.02	101	2.00	1.84	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.12	102	6.00	1.67	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	4080	16.0	01/11/2023	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	01/12/2023	ND	175	87.5	200	12.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	82.8	200	17.8	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	87.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

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

Fax To:

Received: 01/11/2023 Sampling Date: 01/11/2023
Reported: 01/16/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes)
Project Number: 17251 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: MEWBOURNE

Sample ID: FS 29 . @ 4FT (H230135-03)

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	01/12/2023	ND	1.97	98.7	2.00	3.69	
Toluene*	<0.050	0.050	01/12/2023	ND	2.03	102	2.00	1.05	
Ethylbenzene*	thylbenzene* <0.050 0.0		01/12/2023	ND	2.02	101	2.00	1.84	
Total Xylenes*		0.150	01/12/2023	ND	6.12	102	6.00	1.67	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	2600	16.0	01/11/2023	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	01/12/2023	ND	175	87.5	200	12.4	
DRO >C10-C28*	13.5	10.0	01/12/2023	ND	166	82.8	200	17.8	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

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

Fax To:

Received: 01/11/2023 Sampling Date: 01/11/2023

Reported: 01/16/2023 Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER Sampling Condition: ** (See Notes) Sample Received By: Project Number: 17251 Tamara Oldaker

Project Location: **MEWBOURNE**

Sample ID: FS 30 . @ 4FT (H230135-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.97	98.7	2.00	3.69	
Toluene*	<0.050	0.050	01/12/2023	ND	2.03	102	2.00	1.05	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.02	101	2.00	1.84	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.12	102	6.00	1.67	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID 108 %		% 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	2240 16.0		01/11/2023 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	01/12/2023	ND	175	87.5	200	12.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	82.8	200	17.8	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	100 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Applyzod By: 14

Received: 01/11/2023 Reported: 01/16/2023

Sampling Date: 01/11/2023
Sampling Type: Soil

Project Name: ARUMS DEER BOOSTER
Project Number: 17251

RUMS DEER BOOSTER Sampling Condition: ** (See Notes)
7251 Sample Received By: Tamara Oldaker

Project Location: MEWBOURNE

Sample ID: FS 31. @ 4FT (H230135-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	1.07	
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110	6.00	0.724	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID 124 % 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	4720 16.0		01/11/2023 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	01/12/2023	ND	175	87.5	200	12.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	82.8	200	17.8	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keine



01/11/2023

** (See Notes)
Tamara Oldaker

Soil

Analytical Results For:

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

Received: 01/11/2023 Reported: 01/16/2023

01/11/2023 Sampling Date:
01/16/2023 Sampling Type:
ARUMS DEER BOOSTER Sampling Condition:

Sample Received By:

Project Name: ARUMS
Project Number: 17251

Project Location: MEWBOURNE

Sample ID: FS 32 . @ 4FT (H230135-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	1.07	
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110	6.00	0.724	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID 125 % 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	3920 16.0		01/11/2023 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	01/12/2023	ND	175	87.5	200	12.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	82.8	200	17.8	
EXT DRO >C28-C36		10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	103 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Tamara Oldaker

Analytical Results For:

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

Received: 01/11/2023 Reported: 01/16/2023

01/11/2023Sampling Date:01/11/202301/16/2023Sampling Type:SoilARUMS DEER BOOSTERSampling Condition:** (See Notes)

Sample Received By:

Project Name: ARUMS DEER BOOSTER
Project Number: 17251

Project Location: MEWBOURNE

Sample ID: FS 33 . @ 4FT (H230135-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	1.99	99.6	2.00	1.07	
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110	6.00	0.724	
Total BTEX	<0.300 0.300		01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID 125 % 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	5120 16.0		01/11/2023	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	01/12/2023	ND	175	87.5	200	12.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	82.8	200	17.8	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/11/2023 Reported: 01/16/2023

ARUMS DEER BOOSTER

Project Number: 17251
Project Location: MEWBOURNE

Sampling Date: 01/11/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SW 9. (H230135-08)

Project Name:

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	01/12/2023	ND	1.99	99.6	2.00	1.07	
Toluene*	<0.050	0.050	01/12/2023	ND	2.19	110	2.00	1.12	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.14	107	2.00	0.440	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.59	110 6.00		0.724	
Total BTEX	otal BTEX <0.300		01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	rogate: 4-Bromofluorobenzene (PID 124 % 71.5-13								
Chloride, SM4500CI-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		01/11/2023 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	01/12/2023	ND	175	87.5	200	12.4	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	166	82.8	200	17.8	
EXT DRO >C28-C36	<10.0 10.0		01/12/2023	ND					
Surrogate: 1-Chlorooctane	104 % 48.2-134		4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Company Name		nmental & Safety Solu		s, Inc	c.		T	BILL TO					ANALYSIS REQUEST									
Project Manage	Tarce Cho	ndaw					P.	0. 1		•										T		
Address: P.O	. Box 301						C	Company: Meubourne					me									
City: Lovingto	on	State: NM	Zip	:88	260			Attn: JCFF									1 1					
Phone #: (575) 396-2378 Fax #: (575) 396-1429						Address:													1			
Project #: 172	51	Project Owne	r:					ity:														
Project Name: ARUMS Pear Booster						tate:			Zip:		- 1		W	18								
Project Location:					hone				_		Chloride	TPH (8015M)	BTEX (8021B)						1			
Sampler Name:	taran Rid							ax #	_	_				홌	H	×		1 1				1
FOR LAB USE ONLY	paren pere	2	T	T	MA	TRIX	1	-	ESE	RV.	SAA	MPLI	NG	0	4	18						
Lab I.D. H230(35)		ole I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL	OIL	SLUDGE OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DAT	TE	TIME									
1	FS 27.	@ 4 Ft	X	T	X		1	T			1-11-	23		X	X	X						
7	FS 28.	@ 4 Ft	X		X						1			X	X	X						
3	FS 29.	@ 4 Ft	X		X									X	×	X	1					
4	FS 30.	@ 4 Ft	X		×									X	X	X						
5	FS 31.	@ 4 Ft	X		X									X	X	X						
6	B 32.	@ 4 H	X		X					\propto				X	X	X						
7	FS 33.	6 4 Ft	X		×						V			X	X	X						
8	Sw 9.		X		X						1-11-0	23		X	X	X						
analyses. All claims includ service. In no event shall C	ing those for negligence and a ardinal be liable for incidental	by and offent's exclusive remedy for a my offer cause whateoever shall be or consequental damages, including formance of services hereunder by	deems	ed web	ed unios made i allon, busines in	n writing erruptio	and rec	of use,	or loss	final wi	ithin 30 day	ys affected by c	r completion of the Sent, its aubeidies	ve applical ries,	bie							
Relinquished B		Date: 1-23 Time: 0-0			ved By:	14/	1	4	1/1	a	1	W	Phone Re Fax Resul REMARKS	sult: lt:	□ Ye		No No	Add'l Pi				
Relinquished B	y: : (Circle One)	Date: Time:	Ri	t//	ved By:						ED BY:		Please e	mail r	esults	s to p	m@e	etechenv	.com.			
Sampler - UPS	- Bus - Other:	19.60/	19.0	De	Cool Yes	Intac	Yes No		,	(Initia												

FORM-006 Revision 1.0

Received by OCD: 3/14/2023 11:28:30 AM

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

ł

Appendix D Photographic Log

Photo Number:

1

Photo Direction: North-Northwest

Photo Description:

View of the affected area.



Photo Number:

2

Photo Direction:

West

Photo Description:

View of the affected area.



Photo Number:

3

Photo Direction:

West-Southwest

Photo Description:

View of the affected area.



Photo Number:

4

Photo Direction:

West

Photo Description:

View of the affected area.

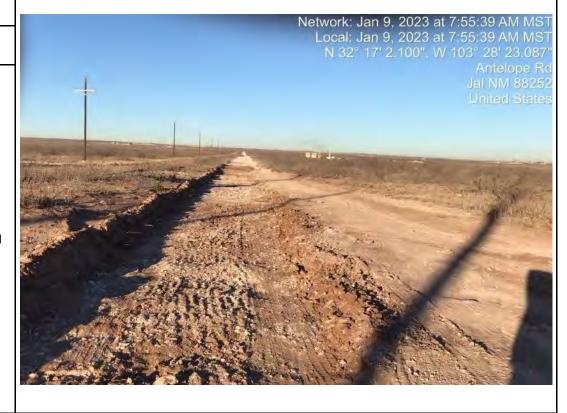


Photo Number:

5

Photo Direction: South

Photo Description:



View of the excavated area.

Photo Number:

6

Photo Direction:

South

Photo Description:

View of the excavated area.



Photo Number:

7

Photo Direction:

East-Southeast

Photo Description:

View of the excavated area.



Photo Number:

8

Photo Direction:

North

Photo Description:

View of the excavated area.



Photo Number:

9

Photo Direction:

South

Photo Description:

View of the excavated area.



Photo Number:

10

Photo Direction:

West-Northwest

Photo Description:

View of the excavated area.



Photo Number:

11

Photo Direction:

East

Photo Description:



View of the remediated area after backfill and regrading.

Photo Number:

12

Photo Direction:

North

Photo Description:



View of the remediated area after backfill and regrading.

Photo Number:

13

Photo Direction:

Northwest

Photo Description:



View of the remediated area after backfill and regrading.

Photo Number:

14

Photo Direction:

West-Northwest

Photo Description:

View of the remediated area after backfill and regrading.



Appendix E Regulatory Correspondence

 From:
 Lance Crenshaw

 To:
 Enviro, OCD, EMNRD

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

Subject: Confirmation Sampling Notification-napp2236030437

Date: Tuesday, January 10, 2023 10:22:06 AM

This email serves as notice that Etech intends to collect excavation confirmation soil samples on January 13 through January 16 from the following locations/reportable release sites:

Mewbourne Oil Co – ARWMS Deer Booster- napp2236030437

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email lance@etechenv.com.

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

From: Hamlet, Robert, EMNRD

To: Ben Arguijo

Cc: Connor Walker; Jeff Broom; Lance Crenshaw; Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon,

Jocelyn, EMNRD

Subject: (Extension Approval) nAPP2236030437 - ARWMS Deer Booster - Mewbourne

Date: Monday, March 13, 2023 8:43:36 AM

Attachments: image003.png

RE: Incident #NAPP2236030437

Ben,

Your request for an extension to **March 15th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Ben Arguijo <bena@etechenv.com> Sent: Sunday, March 12, 2023 8:48 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; ocd.environmental@state.nm.us; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Cc: Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>; Lance Crenshaw <lance@etechenv.com>

Subject: [EXTERNAL] nAPP2236030437 - ARWMS Deer Booster - Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) has contracted Etech Environmental & Safety Solutions, Inc. (Etech), to conduct remediation activities for the release known as the ARWMS Deer Booster (NMOCD Incident #nAPP2236030437) located in Lea County. Pursuant to NMOCD regulations, a work plan or closure report is due for the release **today, March 12, 2023**. The release has been remediated to the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards, and a closure report has been prepared documenting remediation activities conducted at the site.

That said, I apparently mis-recorded the due date for submittal of the closure report, and Mewbourne has not yet had an opportunity to review it. In consideration of this, Etech, on behalf of Mewbourne, requests a **3-day extension** until **Wednesday, March 15, 2023**, to allow Mewbourne time to review the closure report, make any required revisions, and submit it to the NMOCD through the online payment portal.

If you have any questions or need any additional information, please do not hesitate to contact me by phone or email.

Thank you for your time and consideration.

Respectfully, Ben J. Arguijo

Ben J. Arguijo

Project Manager

Environmental & Safety Solutions, Inc. 6309 Indiana Ave., Ste. D Lubbock, TX 79413

(432) 813-1592

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 196866

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	196866
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	3/21/2023