

Incident ID	nAPP2215950306
District RP	
Facility ID	
Application ID	

Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Connor Walker Title: Sr. Engineer
 Signature:  Date: 3/17/2023
 email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

Received by: Robert Hamlet Date: 7/31/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 7/31/2023
 Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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OCD Only

Received by: _____ Date: _____

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Remediation Summary & Soil Closure Request (Amended)

Mewbourne Oil Company CWMS - Queen Booster Station

Eddy County, New Mexico
Unit Letter "N", Section 23, Township 24 South, Range 28 East
Latitude 32.1985170 North, Longitude 104.05959 West
NMOCD Reference No. nAPP2215950306

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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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request (Amended)* for the release site known as the CWMS - Queen Booster Station. Details of the release are summarized below:

Location of Release Source				
Latitude: <u>32.1985170</u>		Longitude: <u>-104.05959</u>		
Provided GPS are in WGS84 format.				
Site Name: <u>CWMS - Queen Booster Station</u>		Site Type: <u>Pipeline</u>		
Date Release Discovered: <u>5/25/2022</u>		API # (if applicable): <u>N/A</u>		
Unit Letter	Section	Township	Range	County
"N"	23	24S	28E	Eddy
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Private (Name <u>Branson Properties, LLC</u>)				
Nature and Volume of Release				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>98</u>		Volume Recovered (bbls) <u>0</u>	
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released		Volume/Weight Recovered	
Cause of Release: <u>A fuse on a poly line fitting failed.</u>				
Initial Response				
<input checked="" type="checkbox"/> The source of the release has been stopped.				
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.				
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices				
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.				

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 CWMS - Queen Booster Station release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	55'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the CWMS - Queen Booster Station release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
55'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	10,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	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 July 28, 2022, 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. Olfactory/visual senses and/or a Hach Quantab® chloride test kit 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 July 28, 2022, Etech collected 14 confirmation soil samples (FL 1 @ 6" through FL 7 @ 1', FL 9 @ 1' through FL 12 @ 1', FL 14 @ 1', FL 15 @ 1', and FL 16 @ 1') from the floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/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 less than the laboratory MDL in soil sample FL 12 @ 1' to 560 mg/kg in soil sample FL 3 @ 6".

On July 29, 2022, Etech collected 14 confirmation soil samples (NW 1, FL 17 @ 1', FL 19 @ 1' through FL 22 @ 1', FL 24 @ 1' through FL 27 @ 1', and FL 29 @ 1' through FL 32 @ 1') 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 48.0 mg/kg in soil sample FL 24 @ 1' to 176 mg/kg in soil samples NW 1 and FL 30 @ 1'.

On August 1, 2022, Etech collected 21 confirmation soil samples (EW 1, WW 1, FL 8 @ 6", FL 13 @ 6", FL 18 @ 6", FL 23 @ 6", FL 28 @ 6", and FL 33 @ 6" through FL 46 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/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 FL 40 @ 6" to 384 mg/kg in soil sample EW 1.

On August 3, 2022, Etech collected 14 confirmation soil samples (EW 2, WW 2, and FL 47 @ 1' through FL 58 @ 4') 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 48.0 mg/kg in soil samples WW 2 and FL 53 @ 1' to 400 mg/kg in soil sample FL 49 @ 1'.

On August 5, 2022, Etech collected five (5) confirmation soil samples (FL 59 @ 4' through FL 63 @ 4') from the 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 FL 62 @ 4' to 3,680 mg/kg in soil sample FL 59 @ 4'.

On August 9, 2022, Etech collected one (1) confirmation soil sample (FL 71 @ 4') from the floor of the excavated area. The soil sample was 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. BTEX and TPH concentrations were also below the applicable laboratory MDL. The chloride concentration was 688 mg/kg.

On August 10, 2022, Etech collected 17 confirmation soil samples (EW 3, SPW 1, WW 3, WW 4, FL 64 @ 2' through FL 70 @ 4', and FL 72 @ 4' through FL 77 @ 4') 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 exception of soil sample SPW 1, which exhibited a TPH concentration of 12.0 mg/kg. Chloride concentrations ranged from 16.0 mg/kg in soil sample FL 76 @ 2' to 1,200 mg/kg in soil sample FL 69 @ 4'.

On August 11, 2022, Etech collected three (3) confirmation soil samples (FL 78 @ 2', FL 79 @ Sur., and FL 80 @ 3') from the 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 304 mg/kg in soil samples FL 78 @ 2' and FL 80 @ 3' to 1,230 mg/kg in soil sample FL 79 @ Sur.

On August 15, 2022, Etech collected five (5) confirmation soil samples (NW 2, SPW 2, FL 81 @ 4', FL 82 @ 4', and FL 83 @ 4') 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 FL 81 @ 4' to 1,780 mg/kg in soil sample SPW 2.

On August 16, 2022, Etech collected five (5) confirmation soil samples (EW 4, SW 3, WW 5, FL 84 @ 4', and FL 85 @ 5) 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 and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples and ranged from 224 mg/kg in soil sample SW 3 to 2,920 mg/kg in soil sample FL 84 @ 4'. The chloride concentration in soil sample EW 4 exceeded the NMOCD Reclamation Standard of 600 mg/kg.

On August 17, 2022, Etech collected 18 confirmation soil samples (EW 5, SW 4, WW 6, and FL 86 @ 4' through FL 100 @ 4') 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 and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples and ranged from 80.0 mg/kg in soil samples WW 6 and FL 100 @ 4' to 960 mg/kg in soil sample FL 92 @ 6". The chloride concentration in soil sample FL 92 @ 6" exceeded the NMOCD Reclamation Standard of 600 mg/kg.

On August 22, 2022, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample EW 4. Etech collected one (1) confirmation soil sample (EW 4A) from the sidewall of the newly excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was 128 mg/kg and below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On August 23, 2022, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FL 92 @ 6". Etech collected one (1) confirmation soil sample (FL 92 @ 1') from the floor of the newly excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was 112 mg/kg and below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On November 3, 2022, based on laboratory analytical results and field activities conducted to that point, a *Remediation Summary & Soil Closure Request* was submitted to the NMOCD requesting regulatory closure of the release. The request was denied by the NMOCD on January 18, 2023, on the bases that (a) the edges of the release had not been delineated to the Reclamation Standards of 600 mg/kg for chloride and 100 mg/kg for TPH in the area represented by sidewall soil sample SPW 2 and (b) several soil samples had been improperly submitted to the laboratory at temperatures above the requisite 6 degrees Celsius (°C).

On January 19, 2023, representatives of Mewbourne and Etech contacted a representative of the NMOCD Artesia District Office to discuss the site and determine a path forward to an approved closure. Mewbourne proposed to advance a series of hand-augered soil borings in the area characterized by soil sample SPW 2 to further investigate the extent of impacted soil and demonstrate that horizontal delineation had been achieved. The proposal was approved by the NMOCD. In addition, it was determined that the aforementioned improperly submitted soil samples had been delivered to the laboratory almost immediately after collection (i.e., within 2 or 3 hours) and had not had sufficient time to cool down to 6°C. The soil samples in question were subsequently deemed acceptable by the NMOCD representative, with the caveat that samples submitted above 6°C in the future would not be admissible for regulatory purposes.

On February 16, 2023, in accordance with the NMOCD, Etech advanced a series of hand-augered soil bores (SH1, SH2, and SH3) in the area characterized by soil sample SPW 2 in an effort to confirm that horizontal delineation of the release had been achieved. A total of six (6) delineation soil samples (SH 1 @ 6", SH 1 @ 2', SH 2 @ 6", SH 2 @ 2', SH 3 @ 6", and SH 3 @ 2') were submitted to the laboratory for analysis of TPH and chloride. Laboratory analytical results indicated TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. TPH concentrations ranged from less than the laboratory MDL in soil samples SH 1 @ 6", SH 1 @ 2', SH 2 @ 6", and SH 2 @ 2' to 373 mg/kg in soil sample SH 3 @ 6". Chloride concentrations ranged from 32.0 mg/kg in soil samples SH 1 @ 6" and SH 2 @ 6" to 448 mg/kg in soil sample SH 2 @ 2'.

On February 23, 2023, Etech advanced an additional hand-augered soil bore (SH3B) at the site in an effort to further investigate the horizontal extent of impacted soil in the area characterized by sample point SH3. Based on field test results, two (2) delineation soil samples (SH 3B @ 6" and SH 3B @ 2') were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criterion, NMOCD Reclamation Standard, and laboratory MDL in each of the submitted soil samples. Based on these laboratory analytical results, the horizontal extent of the CWMS - Queen Booster Station release was adequately delineated.

The final dimensions of the excavated area were approximately 100 to 280 feet in length, 10 to 116 feet in width, and six (6) inches to five (5) feet in depth. During the course of remediation activities, Etech transported approximately 1,780 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 1,780 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

The extent of the excavated area and the locations of the hand-augered soil bores and confirmation soil samples 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. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and/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 (Amended)* to the appropriate agencies and request closure be granted to the CWMS - Queen Booster Station release site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request (Amended)* 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.

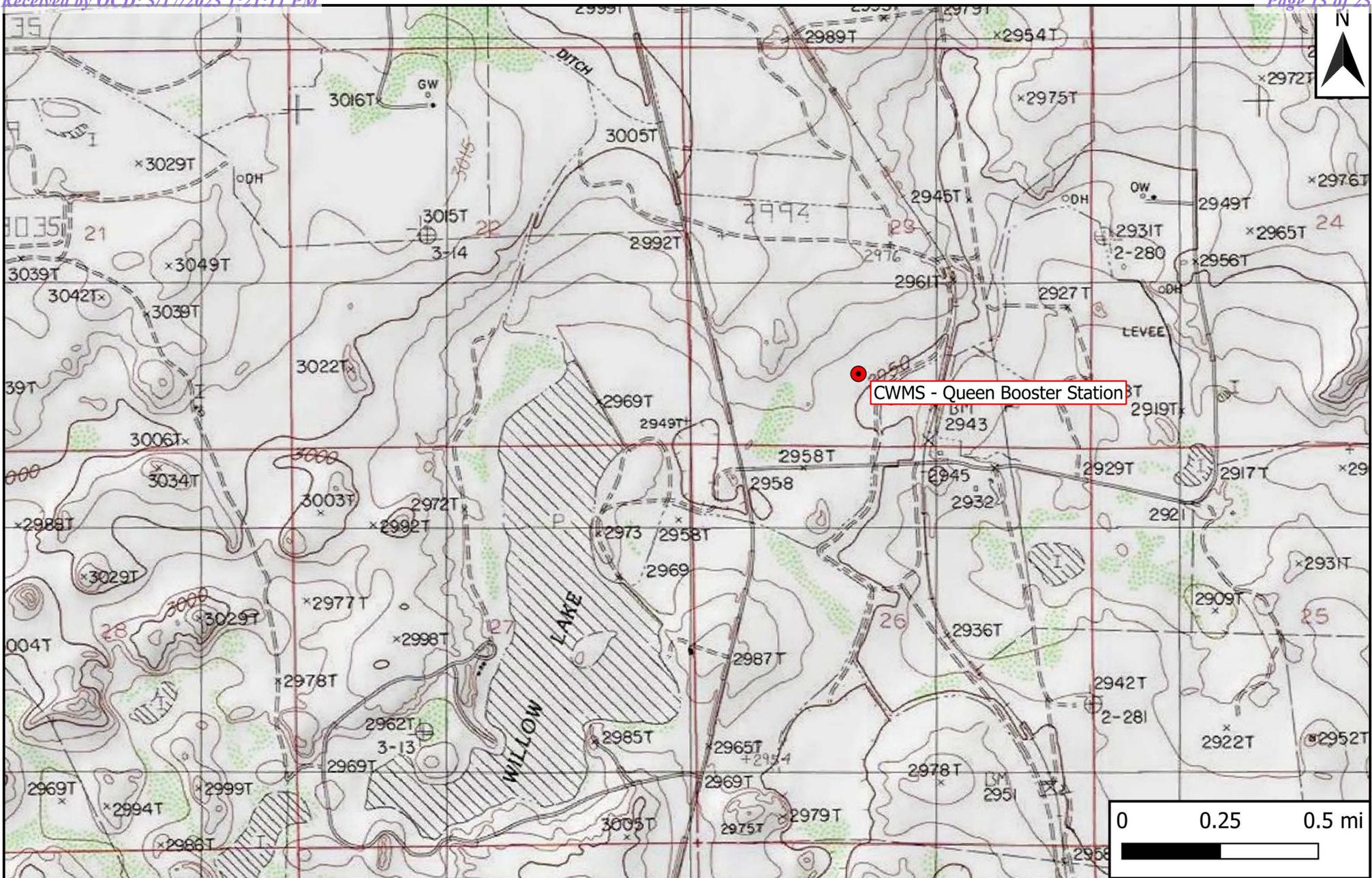
8.0 DISTRIBUTION

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

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

(Electronic Submission)

Figure 1 Topographic Map



Legend
 ● Site Location

Figure 1
 Topographic Map
 Mewbourne Oil Company
 CWMS - Queen Booster Station
 GPS: 32.198517, -104.05959
 Eddy County

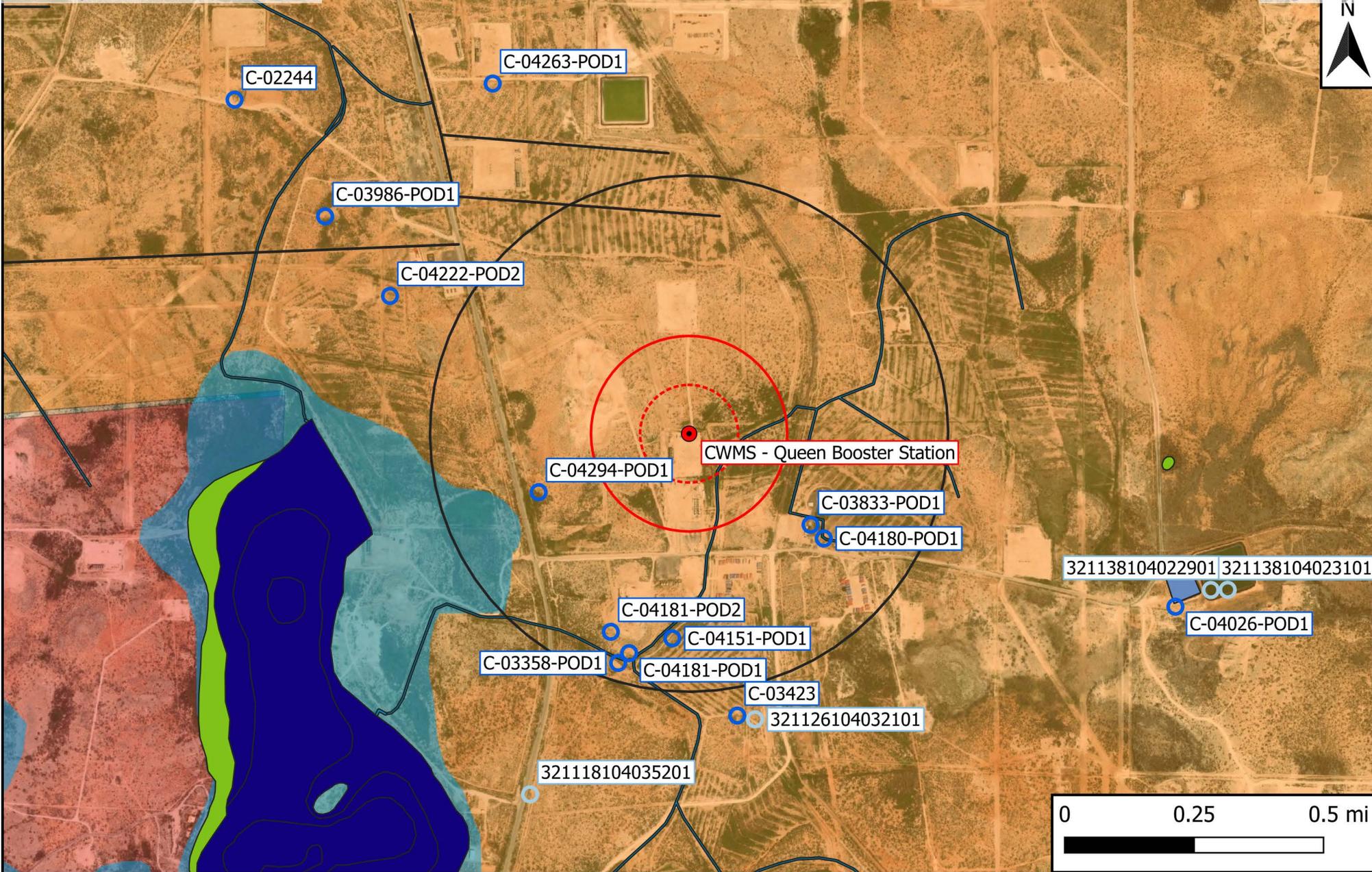


Drafted: bja

Checked: jwl

Date: 8/25/22

Figure 2 Site Characterization Map



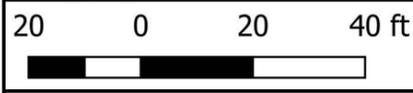
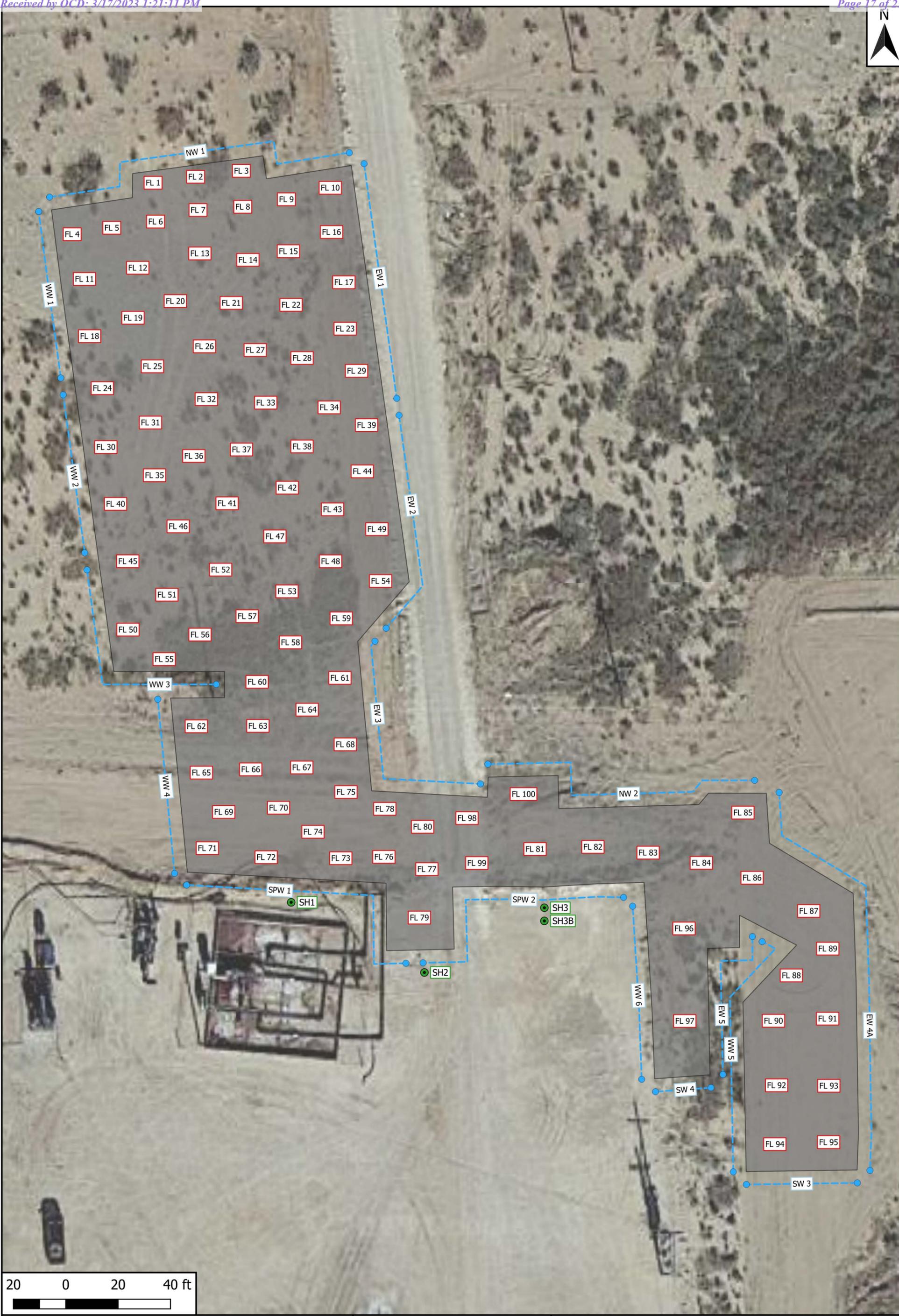
Legend			
	Site Location		500-Ft Radius
	Well - NMOSE		1,000-Ft Radius
	Well - USGS		0.5-Mi Radius
	Well - Exploratory/Monitor		Municipal Boundary
	Potash Mine Workings		1% Annual Flood Chance
	Emergent/Forested Wetlands		Freshwater Pond/Lake
	Karst Potential (Low/Med./High)		Riverine

Figure 2
 Site Characterization Map
 Mewbourne Oil Company
 CWMS - Queen Booster Station
 GPS: 32.198517, -104.05959
 Eddy County



Figure 3

Site & Sample Location Map



Legend	
	Excavation Extent
	Composite Floor Sample
	Composite Wall Sample
	Delineation Sample Location

Figure 3
 Site & Sample Location Map
 Mewbourne Oil Company
 CWMS - Queen Booster Station
 GPS: 32.198517, -103.0559
 Eddy County, NM

ETECH
 Environmental & Safety Solutions, Inc.

Revised: bja
Checked: lc
Date: 3/15/23

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company CWMS - Queen Booster Station NMOCD Ref. #: nAPP2215950306											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				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)
Excavation Samples											
NW 1	7/29/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW 2	8/15/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 1	8/1/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
EW 2	8/3/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 3	8/10/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 4	8/16/2022	0-0.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,090
EW 4A	8/22/2022	0-0.5	In-Situ	-	-	-	-	-	-	-	128
EW 5	8/17/2022	0.5-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SPW 1	8/10/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	12.0	12.0	<10.0	12.0	736
SPW 2	8/15/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,780
SW 3	8/16/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
SW 4	8/17/2022	0.5-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
WW 1	8/1/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
WW 2	8/3/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 3	8/10/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
WW 4	8/10/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
WW 5	8/16/2022	0-0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
WW 6	8/17/2022	0.5-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 1 @ 6"	7/28/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 2 @ 6"	7/28/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 3 @ 6"	7/28/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FL 4 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 5 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 6 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 7 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 8 @ 6"	8/1/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 9 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 10 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 11 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 12 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 13 @ 6"	8/1/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 14 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 15 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 16 @ 1'	7/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 17 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 18 @ 6"	8/1/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 19 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 20 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 21 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 22 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company CWMS - Queen Booster Station NMOCD Ref. #: nAPP2215950306											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				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)
FL 23 @ 6"	8/1/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 24 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 25 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 26 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 27 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 28 @ 6"	8/1/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 29 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 30 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 31 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 32 @ 1'	7/29/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 33 @ 6"	8/1/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 34 @ 6"	8/1/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 35 @ 1'	8/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 36 @ 1'	8/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 37 @ 1'	8/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 38 @ 1'	8/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 39 @ 6"	8/1/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 40 @ 6"	8/1/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 41 @ 1'	8/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 42 @ 1'	8/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 43 @ 1'	8/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 44 @ 1'	8/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 45 @ 1'	8/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 46 @ 2'	8/1/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 47 @ 1'	8/3/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 48 @ 1'	8/3/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 49 @ 1'	8/3/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 50 @ 1'	8/3/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 51 @ 1'	8/3/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 52 @ 1'	8/3/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 53 @ 1'	8/3/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 54 @ 4'	8/3/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 55 @ 4'	8/3/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 56 @ 4'	8/3/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 57 @ 4'	8/3/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 58 @ 4'	8/3/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 59 @ 4'	8/5/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,680
FL 60 @ 4'	8/5/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 61 @ 4'	8/5/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,550
FL 62 @ 4'	8/5/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 63 @ 4'	8/5/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company CWMS - Queen Booster Station NMOCD Ref. #: nAPP2215950306											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				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)
FL 64 @ 2'	8/10/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 65 @ 2'	8/10/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 66 @ 2'	8/10/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 67 @ 4'	8/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 68 @ 4'	8/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 69 @ 4'	8/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,200
FL 79 @ 6"	8/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 71 @ 4'	8/9/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	688
FL 72 @ 4'	8/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,090
FL 73 @ 4'	8/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	720
FL 74 @ 2'	8/10/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 75 @ 2'	8/10/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 76 @ 2'	8/10/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 77 @ 4'	8/10/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 78 @ 2'	8/11/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 79 @ Sur.	8/11/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,230
FL 80 @ 3'	8/11/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 81 @ 4'	8/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 82 @ 4'	8/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 83 @ 4'	8/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 84 @ 4'	8/16/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,920
FL 85 @ 5	8/16/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,460
FL 86 @ 4'	8/17/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
FL 87 @ 6"	8/17/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 88 @ 6"	8/17/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL 89 @ 6"	8/17/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 90 @ 6"	8/17/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 91 @ 6"	8/17/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 92 @ 6"	8/17/2022	0.5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
FL 92 @ 1'	8/23/2022	1	In-Situ	-	-	-	-	-	-	-	112
FL 93 @ 6"	8/17/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 94 @ 6"	8/17/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 95 @ 6"	8/17/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 96 @ 1'	8/17/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 97 @ 2'	8/17/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 98 @ 1'	8/17/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 99 @ 1'	8/17/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 100 @ 4'	8/17/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

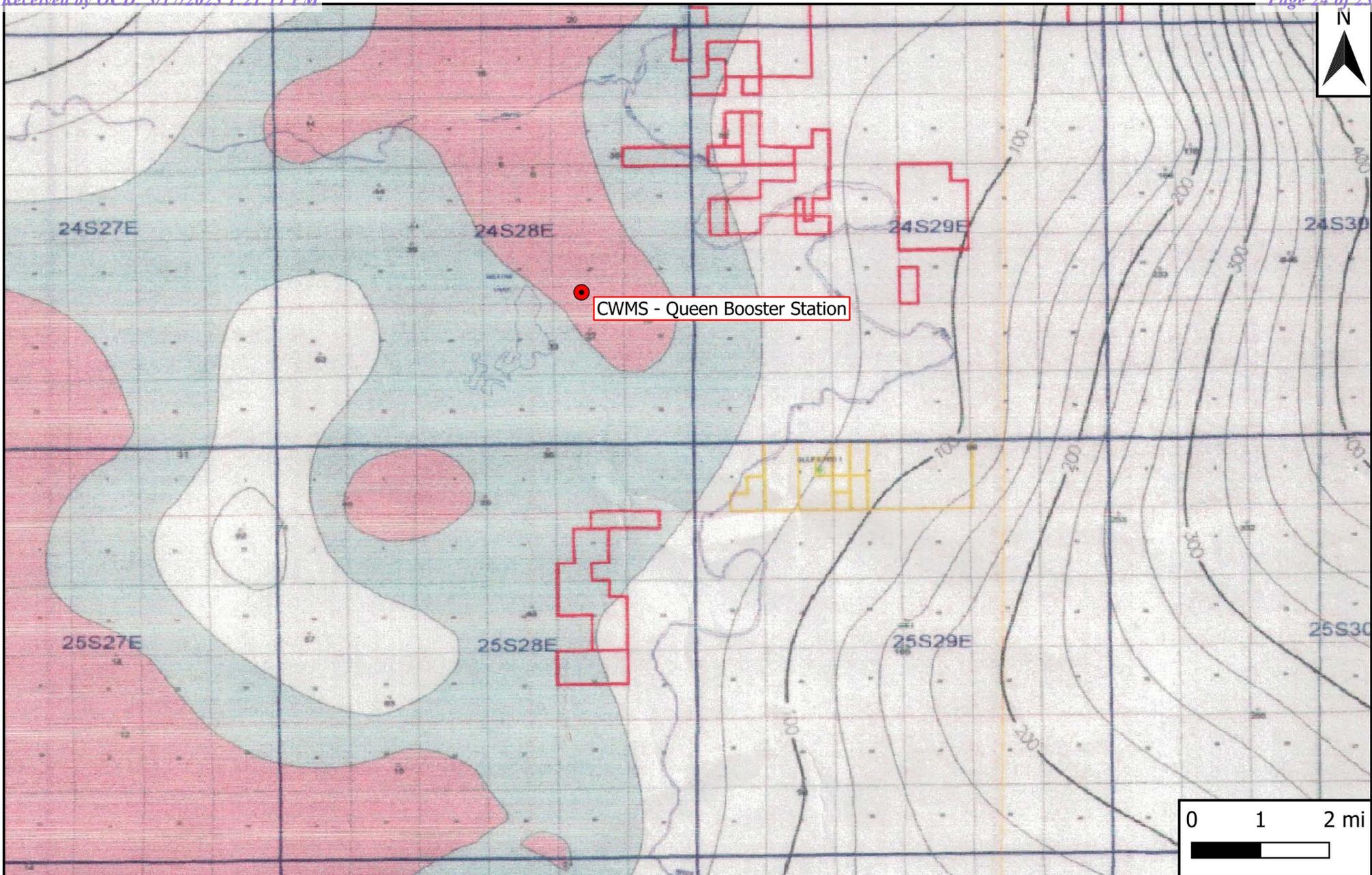
Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company CWMS - Queen Booster Station NMOCD Ref. #: nAPP2215950306											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				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)
Delineation Samples											
SH 1 @ 6"	2/16/2023	0.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 1 @ 2'	2/16/2023	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SH 2 @ 6"	2/16/2023	0.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 2 @ 2'	2/16/2023	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	448
SH 3 @ 6"	2/16/2023	0.5	In-Situ	-	-	<10.0	292	292	81.1	373	144
SH 3 @ 2'	2/16/2023	2	In-Situ	-	-	<10.0	235	235	68.6	304	96.0
SH 3B @ 6"	2/23/2023	0.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
SH 3B @ 2'	2/23/2023	2	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.**Red:** NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



Legend
 ● Site Location

Figure 4
 Inferred Depth to Groundwater Trend Map
 Mewbourne Oil Company
 CWMS - Queen Booster Station
 GPS: 32.198517, -104.05959
 Eddy County



Drafted: bja

Checked: jwl

Date: 8/25/22



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 Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_03833 POD1	C	ED	ED	2	1	2	26	24S	28E	589014	3562545	471	96	55	41
C_04294 POD1	CUB	ED	ED	4	3	3	23	24S	28E	588169	3562646	501	60		
C_04180 POD1	CUB	ED	ED	2	1	2	26	24S	28E	589055	3562502	530	160	58	102
C_04151 POD1	CUB	ED	ED	4	2	1	26	24S	28E	588584	3562192	637	280	65	215
C_04181 POD2	C	ED	ED	3	2	1	26	24S	28E	588393	3562212	661	80	56	24
C_04181 POD1	CUB	ED	ED	3	2	1	26	24S	28E	588450	3562146	706	280	56	224
C_03358 POD1	CUB	ED	ED	1	4	1	26	24S	28E	588416	3562116	745	135		

Average Depth to Water: **58 feet**
 Minimum Depth: **55 feet**
 Maximum Depth: **65 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 588636.56

Northing (Y): 3562827.77

Radius: 804.67

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10/12/22 3:04 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						
Well Tag	POD Number	(quarters are smallest to largest)	(NAD83 UTM in meters)					
		Q64 Q16 Q4 Sec TwS Rng	X Y					
C	03833 POD1	2 1 2 26 24S 28E	589014 3562545					

Driller License: 1229 **Driller Company:** CARTER'S WELL DRILLING

Driller Name: CARTER, RICHARD M

Drill Start Date: 02/19/2015 **Drill Finish Date:** 03/06/2015 **Plug Date:**

Log File Date: 03/23/2015 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 450 GPM

Casing Size: 6.00 **Depth Well:** 96 feet **Depth Water:** 55 feet

Water Bearing Stratifications:	Top	Bottom	Description
	55	96	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	56	96

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
Well Tag	POD Number								
NA	C 04294 POD1								
		(quarters are smallest to largest)	(NAD83 UTM in meters)						
		Q64 Q16 Q4 Sec TwS Rng	X Y						
		4 3 3 23 24S 28E	588169 3562646						

Driller License: 1778	Driller Company: THIRD GENERATION DRILLING	
Driller Name: MANN, TRAVIS		
Drill Start Date: 12/07/2018	Drill Finish Date: 12/08/2018	Plug Date:
Log File Date: 12/20/2018	PCW Rcv Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well: 60 feet	Depth Water:

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04180 POD1	2	1	2	26	24S	28E	589055	3562502

Driller License: 1706	Driller Company: ELITE DRILLERS CORPORATION	
Driller Name: WALLACE, BRYCE J.		
Drill Start Date: 01/08/2018	Drill Finish Date: 01/10/2018	Plug Date:
Log File Date: 01/31/2018	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 100 GPM
Casing Size: 9.00	Depth Well: 160 feet	Depth Water: 58 feet

Water Bearing Stratifications:	Top	Bottom	Description
	20	100	Limestone/Dolomite/Chalk
	100	160	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	40	160

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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
NA	C 04151 POD1	4	2	1	26	24S	28E	588584	3562192

Driller License:	1706	Driller Company:	ELITE DRILLERS CORPORATION						
Driller Name:	WALLACE, BRYCE J.								
Drill Start Date:	01/03/2018	Drill Finish Date:	01/06/2018	Plug Date:					
Log File Date:	01/31/2018	PCW Rev Date:		Source:	Shallow				
Pump Type:		Pipe Discharge Size:		Estimated Yield:	50 GPM				
Casing Size:	9.00	Depth Well:	280 feet	Depth Water:	65 feet				

Water Bearing Stratifications:	Top	Bottom	Description
	15	70	Limestone/Dolomite/Chalk
	70	110	Shale/Mudstone/Siltstone
	110	190	Shale/Mudstone/Siltstone
	190	220	Shale/Mudstone/Siltstone
	220	280	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	60	80
	100	120
	140	160
	180	200

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
NA	C 04181 POD2	3	2	1	26	24S	28E	588393	3562212

Driller License: 1706	Driller Company: ELITE DRILLERS CORPORATION	
Driller Name: WALLACE, BRYCE J.		
Drill Start Date: 05/30/2018	Drill Finish Date: 06/01/2018	Plug Date:
Log File Date: 08/15/2018	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 50 GPM
Casing Size: 9.30	Depth Well: 80 feet	Depth Water: 56 feet

Water Bearing Stratifications:	Top	Bottom	Description
	23	80	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	40	80

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
NA	C 04181 POD1	3	2	1	26	24S	28E	588450	3562146

Driller License: 1706	Driller Company: ELITE DRILLERS CORPORATION	
Driller Name: WALLACE, BRYCE J.		
Drill Start Date: 01/10/2018	Drill Finish Date: 01/12/2018	Plug Date:
Log File Date: 01/31/2018	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 70 GPM
Casing Size: 9.00	Depth Well: 280 feet	Depth Water: 56 feet

Water Bearing Stratifications:	Top	Bottom	Description
	25	90	Limestone/Dolomite/Chalk
	90	140	Limestone/Dolomite/Chalk
	240	280	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	40	100
	180	280

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
C	03358 POD1	1 4 1	26	24S	28E	588416	3562116

Driller License: 1229	Driller Company: CARTER'S WELL DRILLING	
Driller Name: RICHARD CARTER		
Drill Start Date: 04/01/2014	Drill Finish Date: 04/06/2014	Plug Date:
Log File Date: 04/11/2014	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 16.00	Depth Well: 135 feet	Depth Water:

Water Bearing Stratifications:	Top	Bottom	Description
	35	55	Limestone/Dolomite/Chalk
	115	135	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	35	55
	115	126

Meter Number: 16566	Meter Make: MASTERMETER
Meter Serial Number: 53522659	Meter Multiplier: 100.0000
Number of Dials: 9	Meter Type: Diversion
Unit of Measure: Gallons	Return Flow Percent:
Usage Multiplier:	Reading Frequency:

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/2015	2015	393939	A	RPT		0
02/01/2015	2015	437308	A	RPT		13.309
03/02/2015	2015	465450	A	RPT		8.636
04/01/2015	2015	489992	A	RPT		7.532
04/30/2015	2015	515817	A	RPT		7.925
05/31/2015	2015	523367	A	RPT		2.317
07/01/2015	2015	549596	A	RPT		8.049
08/01/2015	2015	563998	A	RPT		4.420
08/31/2015	2015	563998	A	RPT		0
10/01/2015	2015	588852	A	RPT		7.627
03/25/2016	2016	619111	A	RPT		9.286
06/30/2016	2016	725293	A	RPT		32.586
09/30/2016	2016	783652	A	RPT		17.910
12/31/2016	2016	811652	A	RPT		8.593
12/01/2018	2018	4905623	A	RPT		0
01/01/2019	2019	5183206	A	RPT		85.187
01/31/2019	2019	5286462	A	RPT		31.688
03/01/2019	2019	5286463	A	RPT		0

03/29/2019	2019	5370223	A	RPT	25.705
05/03/2019	2019	5529728	A	RPT	48.950
06/01/2019	2019	6047205	A	RPT	158.808
06/29/2019	2019	6393227	A	RPT	106.190
08/02/2019	2019	7025340	A	RPT	193.988
08/30/2019	2019	7205774	A	RPT	55.373
09/27/2019	2019	7586579	A	RPT	116.865
10/29/2019	2019	8040379	A	RPT	139.266
11/29/2019	2019	8087425	A	RPT	14.438

**YTD Meter Amounts:		Year	Amount
		2015	59.815
		2016	68.375
		2018	0
		2019	976.458

Meter Number:	16567	Meter Make:	MASTERMETER
Meter Serial Number:	32530118	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/2015	2015	224113	A	RPT		0
02/01/2015	2015	246127	A	RPT		6.756
03/01/2015	2015	268026	A	RPT		6.721
04/01/2015	2015	300661	A	RPT		10.015
04/30/2015	2015	329801	A	RPT		8.943
05/31/2015	2015	355698	A	RPT		7.947
07/01/2015	2015	394203	A	RPT		11.817
08/01/2015	2015	407268	A	RPT		4.010
08/31/2015	2015	407268	A	RPT		0
10/01/2015	2015	420072	A	RPT		3.929
01/01/2016	2015	428287	A	RPT		2.521
02/01/2016	2016	430149	A	RPT		0.571
03/02/2016	2016	431808	A	RPT		0.509
04/01/2016	2016	437802	A	RPT		1.839
05/01/2016	2016	448145	A	RPT		3.174
06/01/2016	2016	469512	A	RPT		6.557
07/01/2016	2016	487273	A	RPT		5.451
08/01/2016	2016	506168	A	RPT		5.799
09/01/2016	2016	510395	A	RPT		1.297
10/01/2016	2016	512384	A	RPT		0.610
11/01/2016	2016	537214	A	RPT		7.620
12/01/2016	2016	565327	A	RPT		8.628
12/31/2016	2016	588766	A	RPT		7.193
01/31/2017	2017	609942	A	RPT		6.499
02/28/2017	2017	627516	A	RPT		5.393
03/31/2017	2017	639115	A	RPT		3.560

04/30/2017	2017	647009	A	RPT	2.423
05/31/2017	2017	651306	A	RPT	1.319
06/30/2017	2017	674618	A	RPT	7.154

**YTD Meter Amounts:	Year	Amount
	2015	62.659
	2016	49.248
	2017	26.348

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POINT OF DIVERSION SUMMARY



- Legend
- Site Location
 - Well - USGS
 - ⊙ 500-Ft Radius
 - ⊞ 1,000-Ft Radius
 - ⊠ 0.5-Mi Radius

Figure 5
 USGS Well Proximity Map
 Mewbourne Oil Company
 CWMS - Queen Booster Station
 GPS: 32.198517, -104.05959
 Eddy County



Drafted: bja

Checked: jwl

Date: 8/25/22



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Data Category: Groundwater Geographic Area: United States GO

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Search Results -- 1 sites found

Agency code = usgs
site_no list = 321126104032101

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321126104032101 24S.28E.26.23133

Eddy County, New Mexico
Latitude 32°11'25.8", Longitude 104°03'27.0" NAD83
Land-surface elevation 2,944.90 feet above NGVD29
The depth of the well is 126 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1978-02-21			D 72019	27.57			1	Z			A
1983-01-31			D 72019	21.83			1	Z			A
1987-10-16			D 72019	21.83			1	Z			A
1988-02-10			D 72019	21.89			1	Z			A
1992-10-20			D 72019	22.33			1	S			A
1998-01-23			D 72019	26.98			1	S			A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
2003-02-04		D	72019	37.25			1	S	USGS	S	A
2013-01-10	21:50 UTC	m	72019	45.02			1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

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Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-10-12 16:46:10 EDT

0.37 0.26 nadww01



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Geographic Area:

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321118104035201

Minimum number of levels = 1

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USGS 321118104035201 24S.28E.27.42222

Eddy County, New Mexico

Latitude 32°11'18", Longitude 104°03'52" NAD27

Land-surface elevation 2,983 feet above NAVD88

The depth of the well is 190 feet below land surface.

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

This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

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

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1949-03-11		D	72019	33.20			1	Z			A

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	Z	Other:
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

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0.3 0.25 nadww01



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Search Results -- 1 sites found

Agency code = usgs
site_no list =
• 321138104023101

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321138104023101 24S.28E.25.123214

Eddy County, New Mexico

Latitude 32°11'38", Longitude 104°02'31" NAD27

Land-surface elevation 2,915 feet above NAVD88

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

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

Output formats

- [Table of data](#)
- [Tab-separated data](#)
- [Graph of data](#)
- [Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1978-02-21		D	72019	16.35			1	Z			A

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	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

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



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-10-12 16:48:20 EDT

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Agency code = usgs

site_no list =
• 321138104022901

Minimum number of levels = 1

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USGS 321138104022901 24S.28E.25.123222

Eddy County, New Mexico

Latitude 32°11'38", Longitude 104°02'29" NAD27

Land-surface elevation 2,913 feet above NAVD88

The depth of the well is 65 feet below land surface.

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

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

Output formats

[Table of data](#)

[Tab-separated data](#)

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[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1947-10-22			D 72019	6.56			P	Z			A
1948-01-13			D 72019	5.84			1	Z			A
1949-01-29			D 72019	4.86			1	Z			A
1950-01-19			D 72019	3.02			1	Z			A
1951-01-17			D 72019	3.40			1	Z			A
1952-01-16			D 72019	2.79			1	Z			A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1955-01-19		D	72019	5.28			1	Z			A
1956-01-11		D	72019	4.35			1	Z			A
1957-01-09		D	72019	4.50			1	Z			A
1958-01-16		D	72019	3.26			1	Z			A
1959-01-14		D	72019	0.70			1	Z			A
1961-02-27		D	72019	0.87			1	Z			A
1962-01-19		D	72019	1.90			1	Z			A

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
Status	P	Pumping
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

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



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-10-12 16:46:55 EDT

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Appendix B

Field Data & Soil Profile Logs



Sample Log

Date: _____

Project: CWMS Queen Booster Station

Project Number: 16334 Latitude: 32.198612 Longitude: -104.059543

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1 @ 6 in	—	372	
FL2 @ 6 in	—	372	
FL3 @ 6 in	—	416	
FL4 @ 6 in	—	552	
FL5 @ 6 in	—	1216	
FL4 @ 1	—	416	
FL5 @ 1	—	372	
FL6 @ 1	—	416	
FL7 @ 1	—	372	
FL9 @ 1	—	416	
FL10 @ 1	—	200	
FL11 @ 1	—	336	
FL12 @ 1	—	200	
FL14 @ 1	—	336	
FL15 @ 1	—	372	
FL16 @ 1	—	200	
FL18 @ 1	—	372	
FL20 @ 1	—	200	
FL21 @ 1	—	416	
FL22 @ 1	—	200	
FL24 @ 1	—	336	
FL25 @ 1	—	372	
FL26 @ 1	—	372	
FL27 @ 1	—	416	
NW1	—	372	
FL29 @ 1	—	336	
FL30 @ 1	—	336	
FL31 @ 1	—	200	
FL32 @ 1	—	372	
FL35 @ 1	—	200	
FL36 @ 1	—	552	
FL37 @ 1	—	552	
FL38 @ 1	—	416	
EW1	—	200	
WW1	—	372	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: CWMS Queen Booster Station

Project Number: 16334 Latitude: 32.198612 Longitude: -104.059543

Sample ID	PID/Odor	Chloride Conc.	GPS
FL18@6"n	—	296	
FL13@6"n	—	552	
FL18@6"n	—	372	
FL23@6"n	—	552	
FL28@6"n	—	372	
FL33@6"n	—	411	
FL34@6"n	—	372	
FL39@6"n	—	336	
FL40@6"n	—	200	
FL41@1	—	552	
FL42@1	—	260	
FL43@1	—	260	
FL44@1	—	372	
FL45@1	—	504	
FL46@1	—	962	
FL46@2	—	552	
FL47@1	—	504	
FL48@1	—	456	
FL49@1	—	656	
FL50@1	—	552	
FL51@1	—	504	
FL52@1	—	656	
FL53@1	—	296	
FL54@1	—	2512	
FL55@1	—	2512	
FL54@2	—	2512	
FL55@2	—	1308	
FL54@4	—	507	
FL55@4	—	456	
FL56@1	—	2,008	
FL57@1	—	1,308	
FL58@1	—	2512	
EW2	—	296	
NW2	—	411	
FL58@4	—	336	
FL57@4	—	456	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: CWMS Queen Booster Station

Project Number: 16334 Latitude: 32.198612 Longitude: -104.059543

Sample ID	PID/Odor	Chloride Conc.	GPS
FL56@4	—	456	
FL59@4	—	4,112	
FL60@4	—	416	
FL61@4	—	1,620	
FL62@4	—	200	
FL63@4	—	200	
FL65@2	—	372	
FL64@2	—	416	
FL66@2	—	1,216	
FL67@4	—	232	
FL68@4	—	776	
FL69@4	—	1,620	
FL70@4	—	1,308	
WW3	—	456	
FL71@4	—	2,004	
SPW 1	—	776	
FL72@4	—	908	
FL73@4	—	656	
FL74@2	—	416	
FL75@2	—	416	
FL76@2	—	236	
EW3	—	336	
FL77@4	—	604	
WW4	—	372	
FL79@5uv	—	908	
FL78@2	—	456	
FL80@3	—	604	
SPW 2	—	976	
NW2	—	372	
FL81@4	—	232	
FL82@4	—	336	
FL83@4	—	504	
FL84@4	—	756	
FL85@11	—	1,308	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

Date: _____

Project: CWMS Queen Booster Station

Project Number: 16334 Latitude: 32.198612 Longitude: -104.059543

Depth (ft. bgs)		Description
1	1'	Sand, caliche
2	2'	Sand, caliche
3	3'	rock, caliche
4	4'	Sand, clay
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
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40		

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	 <p>Jul 21, 2022 at 11:11:16 AM +32.197482, -104.059899</p>
Photo Direction: West	
Coordinates: 32.198565,-104.059549*	
Photo Description: View of the affected area.	

Photo Number: 2	 <p>Jul 21, 2022 at 11:11:18 AM +32.197482, -104.059899</p>
Photo Direction: West-Northwest	
Coordinates: 32.198565,-104.059549*	
Photo Description: View of the affected area.	

*GPS coordinates imprinted on photograph are inaccurate.

Photographic Log

Photo Number: 3	
Photo Direction: North-Northeast	
Coordinates: 32.198712,-104.059643*	
Photo Description: View of the affected area.	

Photo Number: 4	
Photo Direction: Southwest	
Coordinates: 32.198601,-104.059549*	
Photo Description: View of the affected area.	

*GPS coordinates imprinted on photograph are inaccurate.

Photographic Log

Photo Number: 5	 <p>Aug 16, 2022 at 8:51:47 AM Loving NM 88256 United States</p>
Photo Direction: Northwest	
Coordinates: 32.198945,-104.059550	
Photo Description: View of the excavated area.	

Photo Number: 6	 <p>Aug 16, 2022 at 8:52:35 AM Loving NM 88256 United States</p>
Photo Direction: South-Southwest	
Coordinates: 32.198887,-104.059536	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 7	
Photo Direction: South	
Coordinates: 32.199301,-104.059797	
Photo Description: View of the excavated area.	

Photo Number: 8	
Photo Direction: Southwest	
Coordinates: 32.199301,-104.059608	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 9	 <p>Aug 18, 2022 at 7:42:05 AM Loving NM 88256 United States</p>
Photo Direction: West	
Coordinates: 32.198611,-104.059089	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>Aug 18, 2022 at 7:42:21 AM Loving NM 88256 United States</p>
Photo Direction: South	
Coordinates: 32.198500,-104.059030	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	 <p>Aug 25, 2022 at 11:14:34 AM +32.198524,-104.059419</p>
Photo Direction: West-Northwest	
Coordinates: 32.198524,-104.059419	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 12	 <p>Aug 25, 2022 at 11:14:36 AM +32.198588,-104.059517</p>
Photo Direction: Northwest	
Coordinates: 32.198588,-104.059517	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 13	 <p>Aug 25, 2022 at 11:14:44 AM +32.198588,-104.059517</p>
Photo Direction: North	
Coordinates: 32.198588,-104.059517	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 14	 <p>Aug 25, 2022 at 11:14:53 AM +32.198588,-104.059517</p>
Photo Direction: East	
Coordinates: 32.198588,-104.059517	
Photo Description: View of the remediated area after backfill and regrading.	

Appendix D

Laboratory Analytical Reports



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

August 02, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 07/28/22 16:30.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 1 @ 6" (H223344-01)

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	07/30/2022	ND	1.81	90.4	2.00	8.44	
Toluene*	<0.050	0.050	07/30/2022	ND	1.90	95.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	1.95	97.6	2.00	8.91	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.00	100	6.00	8.74	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	237	119	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 43-149

Surrogate: 1-Chlorooctadecane 73.2 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 2 @ 6" (H223344-02)

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	07/30/2022	ND	1.81	90.4	2.00	8.44	
Toluene*	<0.050	0.050	07/30/2022	ND	1.90	95.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	1.95	97.6	2.00	8.91	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.00	100	6.00	8.74	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

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	08/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	237	119	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND					

Surrogate: 1-Chlorooctane 72.7 % 43-149

Surrogate: 1-Chlorooctadecane 64.0 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 3 @ 6" (H223344-03)

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	07/30/2022	ND	1.81	90.4	2.00	8.44	
Toluene*	<0.050	0.050	07/30/2022	ND	1.90	95.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	1.95	97.6	2.00	8.91	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.00	100	6.00	8.74	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	237	119	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 43-149

Surrogate: 1-Chlorooctadecane 70.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 4 @ 1' (H223344-04)

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	07/30/2022	ND	1.81	90.4	2.00	8.44	
Toluene*	<0.050	0.050	07/30/2022	ND	1.90	95.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	1.95	97.6	2.00	8.91	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.00	100	6.00	8.74	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

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	08/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	237	119	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 43-149

Surrogate: 1-Chlorooctadecane 81.0 % 42.5-161

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Analytical Results For:

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

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 5 @ 1' (H223344-05)

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	07/30/2022	ND	1.81	90.4	2.00	8.44	
Toluene*	<0.050	0.050	07/30/2022	ND	1.90	95.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	1.95	97.6	2.00	8.91	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.00	100	6.00	8.74	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	237	119	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 43-149

Surrogate: 1-Chlorooctadecane 75.1 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
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Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 6 @ 1' (H223344-06)

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	07/30/2022	ND	1.81	90.4	2.00	8.44	
Toluene*	<0.050	0.050	07/30/2022	ND	1.90	95.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	1.95	97.6	2.00	8.91	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.00	100	6.00	8.74	
Total BTEX	<0.300	0.300	07/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	237	119	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND					

Surrogate: 1-Chlorooctane 71.7 % 43-149

Surrogate: 1-Chlorooctadecane 62.7 % 42.5-161

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Analytical Results For:

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Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 7 @ 1' (H223344-07)

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	07/29/2022	ND	1.82	91.0	2.00	8.92	
Toluene*	<0.050	0.050	07/29/2022	ND	1.92	95.9	2.00	9.09	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.97	98.7	2.00	9.64	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	6.06	101	6.00	9.86	
Total BTEX	<0.300	0.300	07/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

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	08/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	237	119	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 43-149

Surrogate: 1-Chlorooctadecane 70.7 % 42.5-161

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Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 9 @ 1' (H223344-08)

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	07/29/2022	ND	1.82	91.0	2.00	8.92	
Toluene*	<0.050	0.050	07/29/2022	ND	1.92	95.9	2.00	9.09	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.97	98.7	2.00	9.64	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	6.06	101	6.00	9.86	
Total BTEX	<0.300	0.300	07/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

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	08/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	237	119	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND					

Surrogate: 1-Chlorooctane 87.8 % 43-149

Surrogate: 1-Chlorooctadecane 79.2 % 42.5-161

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Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 10 @ 1' (H223344-09)

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	07/29/2022	ND	1.82	91.0	2.00	8.92	
Toluene*	<0.050	0.050	07/29/2022	ND	1.92	95.9	2.00	9.09	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.97	98.7	2.00	9.64	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	6.06	101	6.00	9.86	
Total BTEX	<0.300	0.300	07/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	237	119	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 43-149

Surrogate: 1-Chlorooctadecane 78.0 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 11 @ 1' (H223344-10)

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	07/29/2022	ND	1.82	91.0	2.00	8.92	
Toluene*	<0.050	0.050	07/29/2022	ND	1.92	95.9	2.00	9.09	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.97	98.7	2.00	9.64	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	6.06	101	6.00	9.86	
Total BTEX	<0.300	0.300	07/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

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	08/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	203	101	200	1.47	
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	209	105	200	0.568	
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 14 @ 1' (H223344-11)

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	07/29/2022	ND	1.82	91.0	2.00	8.92		
Toluene*	<0.050	0.050	07/29/2022	ND	1.92	95.9	2.00	9.09		
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.97	98.7	2.00	9.64		
Total Xylenes*	<0.150	0.150	07/29/2022	ND	6.06	101	6.00	9.86		
Total BTEX	<0.300	0.300	07/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/01/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	203	101	200	1.47		
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	209	105	200	0.568		
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND						

Surrogate: 1-Chlorooctane 107 % 43-149

Surrogate: 1-Chlorooctadecane 120 % 42.5-161

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Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 15 @ 1' (H223344-12)

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	07/29/2022	ND	1.82	91.0	2.00	8.92	
Toluene*	<0.050	0.050	07/29/2022	ND	1.92	95.9	2.00	9.09	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.97	98.7	2.00	9.64	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	6.06	101	6.00	9.86	
Total BTEX	<0.300	0.300	07/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	203	101	200	1.47	
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	209	105	200	0.568	
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND					

Surrogate: 1-Chlorooctane 115 % 43-149

Surrogate: 1-Chlorooctadecane 133 % 42.5-161

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 Fax To:

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 16 @ 1' (H223344-13)

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	07/29/2022	ND	1.82	91.0	2.00	8.92	
Toluene*	<0.050	0.050	07/29/2022	ND	1.92	95.9	2.00	9.09	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.97	98.7	2.00	9.64	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	6.06	101	6.00	9.86	
Total BTEX	<0.300	0.300	07/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	203	101	200	1.47	
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	209	105	200	0.568	
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND					

Surrogate: 1-Chlorooctane 118 % 43-149

Surrogate: 1-Chlorooctadecane 138 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/28/2022	Sampling Date:	07/28/2022
Reported:	08/02/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 12 @ 1' (H223344-14)

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	07/29/2022	ND	1.82	91.0	2.00	8.92	
Toluene*	<0.050	0.050	07/29/2022	ND	1.92	95.9	2.00	9.09	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.97	98.7	2.00	9.64	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	6.06	101	6.00	9.86	
Total BTEX	<0.300	0.300	07/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2022	ND	203	101	200	1.47	
DRO >C10-C28*	<10.0	10.0	08/01/2022	ND	209	105	200	0.568	
EXT DRO >C28-C36	<10.0	10.0	08/01/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 43-149

Surrogate: 1-Chlorooctadecane 97.1 % 42.5-161

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Notes and Definitions

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

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Lance Crushaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)											
Address: P.O. Box 301				Company: Mewbourne oil Co.															
City: Lovington		State: NM		Zip: 88260		Attn: Robbie Runnels													
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: 4801 Bos Ark Ln															
Project #:		Project Owner: Mewbourne oil		City: Hobbs															
Project Name: CWMS Queen Booster Station				State: NM														Zip:	
Project Location: Rural Lovin NM				Phone #:															
Sampler Name: Dominic Casave				Fax #:															
FOR LAB USE ONLY				MATRIX		PRESERV												SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL											SLUDGE	OTHER:
H223344													7:28	4:30					
1 DC	FL 1 @ 6in																		
2 DC	FL 2 @ 6in																		
3 DC	FL 3 @ 6in																		
4 DC	FL 4 @ 1																		
5 DC	FL 5 @ 1																		
6 DC	FL 6 @ 1																		
7 DC	FL 7 @ 1																		
8 DC	FL 9 @ 1																		
9 DC	FL 10 @ 1																		
10 DC	FL 11 @ 1																		
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitution, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																			
Relinquished By: <i>[Signature]</i>				Date: 7/28		Received By: <i>[Signature]</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:							
Relinquished By:				Time: 4:30 pm		REMARKS:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:							
Relinquished By:				Date:		Received By:				Please email results to pm@etechenv.com.									
Relinquished By:				Time:		Sample Condition				CHECKED BY: (Initials)									
Delivered By: (Circle One)				Cool Intact		Cool Intact				Cool Intact									
Sampler - UPS - Bus - Other:				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		34.7°C - 0.6°C				34.1°C #113									



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

August 04, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 07/29/22 16:25.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent initial "C".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 17 @ 1' (H223373-01)

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	08/03/2022	ND	1.91	95.5	2.00	0.248	
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 96.1 % 43-149

Surrogate: 1-Chlorooctadecane 95.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 19 @ 1' (H223373-02)

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	08/03/2022	ND	1.91	95.5	2.00	0.248		
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84		
Total BTEX	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2		
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27		
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND						

Surrogate: 1-Chlorooctane 109 % 43-149

Surrogate: 1-Chlorooctadecane 109 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 20 @ 1' (H223373-03)

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	08/03/2022	ND	1.91	95.5	2.00	0.248		
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84		
Total BTEX	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2		
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27		
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND						

Surrogate: 1-Chlorooctane 104 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 21 @ 1' (H223373-04)

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	08/03/2022	ND	1.91	95.5	2.00	0.248	
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 107 % 43-149

Surrogate: 1-Chlorooctadecane 107 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 22 @ 1' (H223373-05)

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	08/03/2022	ND	1.91	95.5	2.00	0.248	
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 43-149

Surrogate: 1-Chlorooctadecane 95.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 24 @ 1' (H223373-06)

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	08/03/2022	ND	1.91	95.5	2.00	0.248	
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 103 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 25 @ 1' (H223373-07)

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	08/03/2022	ND	1.91	95.5	2.00	0.248	
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/03/2022	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	08/03/2022	ND	198	98.9	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 43-149

Surrogate: 1-Chlorooctadecane 99.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 26 @ 1' (H223373-08)

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	08/03/2022	ND	1.91	95.5	2.00	0.248		
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84		
Total BTEX	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/03/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	198	98.9	200	13.2		
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27		
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND						

Surrogate: 1-Chlorooctane 112 % 43-149

Surrogate: 1-Chlorooctadecane 112 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 27 @ 1' (H223373-09)

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	08/03/2022	ND	1.91	95.5	2.00	0.248	
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/03/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	198	98.9	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 43-149

Surrogate: 1-Chlorooctadecane 90.8 % 42.5-161

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Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: NW 1 @ 1' (H223373-10)

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	08/03/2022	ND	1.91	95.5	2.00	0.248	
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/03/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	198	98.9	200	13.2	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	194	97.0	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 43-149

Surrogate: 1-Chlorooctadecane 98.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 29 @ 1' (H223373-11)

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	08/03/2022	ND	1.91	95.5	2.00	0.248		
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84		
Total BTEX	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/03/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	212	106	200	13.6		
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	223	112	200	8.89		
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND						

Surrogate: 1-Chlorooctane 85.5 % 43-149

Surrogate: 1-Chlorooctadecane 84.8 % 42.5-161

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

Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 30 @ 1' (H223373-12)

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	08/03/2022	ND	1.91	95.5	2.00	0.248	
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/03/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	212	106	200	13.6	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	223	112	200	8.89	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 43-149

Surrogate: 1-Chlorooctadecane 93.9 % 42.5-161

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Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 31 @ 1' (H223373-13)

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	08/03/2022	ND	1.91	95.5	2.00	0.248	
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/03/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	212	106	200	13.6	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	223	112	200	8.89	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 43-149

Surrogate: 1-Chlorooctadecane 85.3 % 42.5-161

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Analytical Results For:

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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 32 @ 1' (H223373-14)

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	08/03/2022	ND	1.91	95.5	2.00	0.248	
Toluene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.72	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.00	99.9	2.00	2.06	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.19	103	6.00	2.84	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/03/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	212	106	200	13.6	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	223	112	200	8.89	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 43-149

Surrogate: 1-Chlorooctadecane 87.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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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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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO				ANALYSIS REQUEST																			
Project Manager: <i>Lancia Cronshaw</i>		P.O. #:				Chloride TPH (8016M) BTEX (8021B)																			
Address: P.O. Box 301		Company: <i>Melbourn</i>																							
City: Lovington State: NM Zip: 88260		Attn: <i>Robbie Runnels</i>																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address: <i>4801 Bos Ark Blvd</i>																							
Project #: Project Owner: <i>Melbourn</i>		City: <i>Hobbs</i>																							
Project Name: <i>CWMS Queen Booster Station</i>		State: <i>NM</i> Zip:																							
Project Location: <i>Rural Lovings N.M</i>		Phone #:																							
Sampler Name: <i>Dominic Casarici</i>		Fax #:																							
FOR LAB USE ONLY																									
Lab I.D. Sample I.D.		MATRIX PRESERV SAMPLING																							
		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:																							
<i>H223373</i>																									
<i>DC</i>																									
<i>1 FL 17 @ 1</i>						<i>7-29 4:25</i>																			
<i>2 EL 19 @ 1</i>																									
<i>3 EL 20 @ 1</i>																									
<i>4 EL 21 @ 1</i>																									
<i>5 EL 22 @ 1</i>																									
<i>6 EL 24 @ 1</i>																									
<i>7 EL 25 @ 1</i>																									
<i>8 EL 26 @ 1</i>																									
<i>9 EL 27 @ 1</i>																									
<i>10 EL 28 @ 1</i>																									
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Relinquished By: <i>[Signature]</i>		Date: <i>7/29</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																	
		Time: <i>4:25</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																	
Relinquished By:		Date:		Received By:		REMARKS:																			
		Time:				Please email results to pm@etechenv.com.																			
Delivered By: (Circle One)		<i>33.6°C C-0.6°C</i>		Sample Condition		CHECKED BY: (Initials)																			
Sampler - UPS - Bus - Other:		<i>33.0°C #113</i>		Cool Intact		<i>TO</i>																			
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																					



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

August 05, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 08/01/22 16:25.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 23 @ 6" (H223393-01)

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	08/04/2022	ND	1.75	87.6	2.00	15.9		
Toluene*	<0.050	0.050	08/04/2022	ND	1.78	89.2	2.00	17.1		
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	1.78	89.1	2.00	17.2		
Total Xylenes*	<0.150	0.150	08/04/2022	ND	5.43	90.4	6.00	17.4		
Total BTEX	<0.300	0.300	08/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	240	120	200	2.61		
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30		
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND						

Surrogate: 1-Chlorooctane 71.2 % 43-149

Surrogate: 1-Chlorooctadecane 72.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 18 @ 6" (H223393-02)

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	08/04/2022	ND	1.75	87.6	2.00	15.9	
Toluene*	<0.050	0.050	08/04/2022	ND	1.78	89.2	2.00	17.1	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	1.78	89.1	2.00	17.2	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	5.43	90.4	6.00	17.4	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 100 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 40 @ 6" (H223393-03)

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	08/04/2022	ND	1.75	87.6	2.00	15.9	
Toluene*	<0.050	0.050	08/04/2022	ND	1.78	89.2	2.00	17.1	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	1.78	89.1	2.00	17.2	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	5.43	90.4	6.00	17.4	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 43-149

Surrogate: 1-Chlorooctadecane 77.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 39 @ 6" (H223393-04)

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	08/04/2022	ND	1.75	87.6	2.00	15.9	
Toluene*	<0.050	0.050	08/04/2022	ND	1.78	89.2	2.00	17.1	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	1.78	89.1	2.00	17.2	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	5.43	90.4	6.00	17.4	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

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	08/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 100 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 34 @ 6" (H223393-05)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 72.8 % 43-149

Surrogate: 1-Chlorooctadecane 75.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 41 @ 1' (H223393-06)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	08/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 43-149

Surrogate: 1-Chlorooctadecane 85.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 42 @ 1' (H223393-07)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	08/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 73.7 % 43-149

Surrogate: 1-Chlorooctadecane 75.8 % 42.5-161

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Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 43 @ 1' (H223393-08)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 43-149

Surrogate: 1-Chlorooctadecane 89.5 % 42.5-161

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Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 44 @ 1' (H223393-09)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/04/2022	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	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 103 % 43-149

Surrogate: 1-Chlorooctadecane 109 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 45 @ 1' (H223393-10)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	08/04/2022	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	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 43-149

Surrogate: 1-Chlorooctadecane 92.7 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 35 @ 1' (H223393-11)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/04/2022	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	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

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Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 36 @ 1' (H223393-12)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/04/2022	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	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 43-149

Surrogate: 1-Chlorooctadecane 98.5 % 42.5-161

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Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 37 @ 1' (H223393-13)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/04/2022	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	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 43-149

Surrogate: 1-Chlorooctadecane 80.2 % 42.5-161

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 38 @ 1' (H223393-14)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	08/04/2022	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	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 107 % 42.5-161

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Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 13 @ 6" (H223393-15)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	08/04/2022	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	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 43-149

Surrogate: 1-Chlorooctadecane 90.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 8 @ 6" (H223393-16)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/04/2022	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	08/04/2022	ND	240	120	200	2.61	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	262	131	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: WW1 (H223393-17)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/04/2022	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	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 54.4 % 43-149

Surrogate: 1-Chlorooctadecane 62.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: EW1 (H223393-18)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	08/04/2022	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	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 75.3 % 43-149

Surrogate: 1-Chlorooctadecane 85.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 33 @ 6" (H223393-19)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/04/2022	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	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 65.1 % 43-149

Surrogate: 1-Chlorooctadecane 74.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 28 @ 6" (H223393-20)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/04/2022	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	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 50.3 % 43-149

Surrogate: 1-Chlorooctadecane 58.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/05/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 46 @ 2' (H223393-21)

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	08/04/2022	ND	1.92	95.8	2.00	7.78	
Toluene*	<0.050	0.050	08/04/2022	ND	2.06	103	2.00	7.78	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.03	101	2.00	8.80	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.35	106	6.00	9.32	
Total BTEX	<0.300	0.300	08/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	08/04/2022	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	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 69.7 % 43-149

Surrogate: 1-Chlorooctadecane 81.7 % 42.5-161

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Notes and Definitions

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: LANC Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																		
Address: P.O. Box 301				Company: <i>Mewbourn</i>																						
City: Lovington		State: NM		Zip: 88260		Attn: <i>Robbie Runnels</i>																				
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: <i>4801 Bus Rock Blvd</i>																						
Project #: <i>16334</i>		Project Owner: <i>Mewbourn</i>		City: <i>Hobbs</i>																						
Project Name: <i>CWMS Queen Booster Station</i>				State: <i>NM</i> Zip:																						
Project Location: <i>Rural Lovins NM</i>				Phone #:																						
Sampler Name: <i>Dominic Gonzalez</i>				Fax #:																						
FOR LAB USE ONLY																										
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS)	MATRIX					PRESERV.		SAMPLING														
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
<i>H20233973</i>													<i>8/1</i>	<i>4:25</i>												
<i>PC11</i>		<i>FL35 @ 1</i>																								
<i>12</i>		<i>FL36 @ 1</i>																								
<i>13</i>		<i>FL37 @ 1</i>																								
<i>14</i>		<i>FL38 @ 1</i>																								
<i>15</i>		<i>FL13 @ 6:in</i>																								
<i>16</i>		<i>FL8 @ 6:in</i>																								
<i>17</i>		<i>WW1</i>																								
<i>18</i>		<i>EW1</i>																								
<i>19</i>		<i>FL33 @ 6:in</i>																								
<i>20</i>		<i>FL28 @ 6:in</i>																								
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																										
Relinquished By: <i>[Signature]</i>				Date: <i>8/1</i>		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:														
				Time: <i>4:25</i>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:														
Relinquished By:				Date: <i>8/1/22</i>		Received By: <i>[Signature]</i>				REMARKS:																
				Time: <i>10:25</i>						Please email results to pm@etechenv.com.																
Delivered By: (Circle One) <i>33-3i</i>				Cool Intact: <i>← 0.6°C</i>		Sample Condition:				CHECKED BY: <i>[Signature]</i>																
Sampler - UPS - Bus - Other:				<i>32.7°C #113</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				(Initials)																



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

August 09, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 08/03/22 16:15.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 47 @ 1 (H223476-01)

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	08/06/2022	ND	1.80	90.2	2.00	5.14	
Toluene*	<0.050	0.050	08/06/2022	ND	1.92	96.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.94	97.2	2.00	0.766	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.03	100	6.00	2.00	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	175	87.4	200	2.13	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	180	90.2	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 71.4 % 43-149

Surrogate: 1-Chlorooctadecane 75.5 % 42.5-161

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 48 @ 1 (H223476-02)

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	08/06/2022	ND	1.80	90.2	2.00	5.14	
Toluene*	<0.050	0.050	08/06/2022	ND	1.92	96.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.94	97.2	2.00	0.766	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.03	100	6.00	2.00	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	175	87.4	200	2.13	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	180	90.2	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 72.0 % 43-149

Surrogate: 1-Chlorooctadecane 72.1 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 49 @ 1 (H223476-03)

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	08/06/2022	ND	1.80	90.2	2.00	5.14	
Toluene*	<0.050	0.050	08/06/2022	ND	1.92	96.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.94	97.2	2.00	0.766	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.03	100	6.00	2.00	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	175	87.4	200	2.13	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	180	90.2	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 43-149

Surrogate: 1-Chlorooctadecane 80.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 50 @ 1 (H223476-04)

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	08/06/2022	ND	1.80	90.2	2.00	5.14	
Toluene*	<0.050	0.050	08/06/2022	ND	1.92	96.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.94	97.2	2.00	0.766	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.03	100	6.00	2.00	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	175	87.4	200	2.13	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	180	90.2	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 67.4 % 43-149

Surrogate: 1-Chlorooctadecane 70.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 51 @ 1 (H223476-05)

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	08/06/2022	ND	1.80	90.2	2.00	5.14	
Toluene*	<0.050	0.050	08/06/2022	ND	1.92	96.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.94	97.2	2.00	0.766	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.03	100	6.00	2.00	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	175	87.4	200	2.13	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	180	90.2	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 75.4 % 43-149

Surrogate: 1-Chlorooctadecane 78.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 52 @ 1 (H223476-06)

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	08/06/2022	ND	1.80	90.2	2.00	5.14	
Toluene*	<0.050	0.050	08/06/2022	ND	1.92	96.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.94	97.2	2.00	0.766	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.03	100	6.00	2.00	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	175	87.4	200	2.13	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	180	90.2	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 74.7 % 43-149

Surrogate: 1-Chlorooctadecane 77.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 53 @ 1 (H223476-07)

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	08/06/2022	ND	1.80	90.2	2.00	5.14	
Toluene*	<0.050	0.050	08/06/2022	ND	1.92	96.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.94	97.2	2.00	0.766	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.03	100	6.00	2.00	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	08/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	175	87.4	200	2.13	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	180	90.2	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 69.6 % 43-149

Surrogate: 1-Chlorooctadecane 71.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 54 @ 4 (H223476-08)

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	08/06/2022	ND	1.80	90.2	2.00	5.14	
Toluene*	<0.050	0.050	08/06/2022	ND	1.92	96.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.94	97.2	2.00	0.766	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.03	100	6.00	2.00	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	175	87.4	200	2.13	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	180	90.2	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 76.1 % 43-149

Surrogate: 1-Chlorooctadecane 79.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 55 @ 4 (H223476-09)

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	08/06/2022	ND	1.80	90.2	2.00	5.14	
Toluene*	<0.050	0.050	08/06/2022	ND	1.92	96.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.94	97.2	2.00	0.766	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.03	100	6.00	2.00	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

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	08/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	175	87.4	200	2.13	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	180	90.2	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 77.9 % 43-149

Surrogate: 1-Chlorooctadecane 79.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 56 @ 4 (H223476-10)

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	08/06/2022	ND	1.80	90.2	2.00	5.14	
Toluene*	<0.050	0.050	08/06/2022	ND	1.92	96.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.94	97.2	2.00	0.766	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.03	100	6.00	2.00	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-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	08/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	175	87.4	200	2.13	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	180	90.2	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 75.1 % 43-149

Surrogate: 1-Chlorooctadecane 79.6 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: WW 2 (H223476-11)

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	08/06/2022	ND	1.80	90.2	2.00	5.14	
Toluene*	<0.050	0.050	08/06/2022	ND	1.92	96.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.94	97.2	2.00	0.766	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	6.03	100	6.00	2.00	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	08/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	212	106	200	8.77	
DRO >C10-C28*	<10.0	10.0	08/08/2022	ND	201	100	200	8.34	
EXT DRO >C28-C36	<10.0	10.0	08/08/2022	ND					

Surrogate: 1-Chlorooctane 100 % 43-149

Surrogate: 1-Chlorooctadecane 95.6 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: EW 2 (H223476-12)

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	08/06/2022	ND	1.83	91.6	2.00	7.66		
Toluene*	<0.050	0.050	08/06/2022	ND	1.96	97.8	2.00	6.55		
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.90	95.1	2.00	10.1		
Total Xylenes*	<0.150	0.150	08/06/2022	ND	5.91	98.4	6.00	10.4		
Total BTEX	<0.300	0.300	08/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

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	08/06/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	212	106	200	8.77		
DRO >C10-C28*	<10.0	10.0	08/08/2022	ND	201	100	200	8.34		
EXT DRO >C28-C36	<10.0	10.0	08/08/2022	ND						

Surrogate: 1-Chlorooctane 111 % 43-149

Surrogate: 1-Chlorooctadecane 116 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 58 @ 4 (H223476-13)

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	08/06/2022	ND	1.83	91.6	2.00	7.66	
Toluene*	<0.050	0.050	08/06/2022	ND	1.96	97.8	2.00	6.55	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.90	95.1	2.00	10.1	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	5.91	98.4	6.00	10.4	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	212	106	200	8.77	
DRO >C10-C28*	<10.0	10.0	08/08/2022	ND	201	100	200	8.34	
EXT DRO >C28-C36	<10.0	10.0	08/08/2022	ND					

Surrogate: 1-Chlorooctane 123 % 43-149

Surrogate: 1-Chlorooctadecane 124 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/03/2022	Sampling Date:	08/03/2022
Reported:	08/09/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 57 @ 4 (H223476-14)

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	08/06/2022	ND	1.83	91.6	2.00	7.66	
Toluene*	<0.050	0.050	08/06/2022	ND	1.96	97.8	2.00	6.55	
Ethylbenzene*	<0.050	0.050	08/06/2022	ND	1.90	95.1	2.00	10.1	
Total Xylenes*	<0.150	0.150	08/06/2022	ND	5.91	98.4	6.00	10.4	
Total BTEX	<0.300	0.300	08/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/06/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	212	106	200	8.77	
DRO >C10-C28*	<10.0	10.0	08/08/2022	ND	201	100	200	8.34	
EXT DRO >C28-C36	<10.0	10.0	08/08/2022	ND					

Surrogate: 1-Chlorooctane 104 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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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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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO				ANALYSIS REQUEST																																	
Project Manager: <u>Lance Crenshaw</u>		P.O. #:		Company: <u>Mewbourn</u>		Chloride TPH (8015M) BTEX (8021B)																																	
Address: P.O. Box 301		Attn: <u>Ronnie Runnels</u>		Address: <u>4801 S. Lusk Blvd</u>																																			
City: Lovington State: NM Zip: 88260		City: <u>Hobbs</u>		State: <u>NM</u> Zip:																																			
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Project Owner: <u>Mewbourn</u>		Phone #:																																			
Project #: <u>16334</u>		Project Name: <u>CHMS Queen Booster Station</u>		Fax #:																																			
Project Location: <u>Rural Lovings NM</u>		Sampler Name: <u>Dominic Casarez</u>																																					
FOR LAB USE ONLY																																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.												# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
<u>H223476</u>																																							
<u>DL1</u>		<u>FL 47 @ 1</u>																																		<u>8/3</u>			
<u>2</u>		<u>FL 48 @ 1</u>																																					
<u>3</u>		<u>FL 49 @ 1</u>																																					
<u>4</u>		<u>FL 50 @ 1</u>																																					
<u>5</u>		<u>FL 51 @ 1</u>																																					
<u>6</u>		<u>FL 52 @ 1</u>																																					
<u>7</u>		<u>FL 53 @ 1</u>																																					
<u>8</u>		<u>FL 54 @ 4</u>																																					
<u>9</u>		<u>FL 55 @ 4</u>																																					
<u>10</u>		<u>FL 56 @ 4</u>																																					

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Relinquished By: <u>[Signature]</u>	Date: <u>8/3</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>4:15 pm</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		Please email results to pm@etechenv.com.	

Delivered By: (Circle One) <u>31.6i</u> <u>C-0.6i</u>	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other: <u>31.0i #113</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <u>YO</u>



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: Lane Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																		
Address: P.O. Box 301				Company: Newbourn																						
City: Lovington		State: NM		Zip: 88260		Attn: Rosalyn Runnels																				
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: 4801 Divisadero Blvd																						
Project #: 16334		Project Owner: Newbourn		City: Hobbs																						
Project Name: CWMS Green Booster Station				State: NM																Zip:						
Project Location: Rural Lovings NM				Phone #:																						
Sampler Name: Dominic Casares				Fax #:																						
FOR LAB USE ONLY																										
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING														
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
H023476													8/3													
DL11		AWW2																								
12		EW 2																								
13		FL58 @ 4																								
14		FL57 @ 4																								
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Relinquished By: <i>[Signature]</i>				Date: 8/3		Received By: <i>[Signature]</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:														
				Time: 4:15pm						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:														
Relinquished By:				Date:		Received By:				REMARKS:																
				Time:						Please email results to pm@etechenv.com.																
Delivered By: (Circle One)				31.6c		Sample Condition				CHECKED BY:																
Sampler - UPS - Bus - Other:				C-0.6c		Cool Intact				(Initials)																
				31.0c #113		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				[Signature]																



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

August 10, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 08/05/22 15:50.

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

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent initial "C".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/10/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 59 @ 4 (H223519-01)

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	08/09/2022	ND	1.82	91.2	2.00	2.86	
Toluene*	<0.050	0.050	08/09/2022	ND	1.96	98.0	2.00	0.187	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	1.89	94.6	2.00	0.232	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	5.86	97.6	6.00	0.180	
Total BTEX	<0.300	0.300	08/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	08/10/2022	ND	416	104	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	08/09/2022	ND	185	92.4	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	199	99.4	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 93.6 % 43-149

Surrogate: 1-Chlorooctadecane 99.7 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/10/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 60 @ 4 (H223519-02)

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	08/09/2022	ND	1.93	96.4	2.00	8.11	
Toluene*	<0.050	0.050	08/09/2022	ND	2.03	101	2.00	9.76	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.07	103	2.00	9.67	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.28	105	6.00	9.58	
Total BTEX	<0.300	0.300	08/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/10/2022	ND	416	104	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	08/09/2022	ND	185	92.4	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	199	99.4	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 43-149

Surrogate: 1-Chlorooctadecane 99.1 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/10/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 61 @ 4 (H223519-03)

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	08/09/2022	ND	1.93	96.4	2.00	8.11	
Toluene*	<0.050	0.050	08/09/2022	ND	2.03	101	2.00	9.76	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.07	103	2.00	9.67	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.28	105	6.00	9.58	
Total BTEX	<0.300	0.300	08/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	08/10/2022	ND	416	104	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	08/09/2022	ND	185	92.4	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	199	99.4	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/10/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 62 @ 4 (H223519-04)

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	08/09/2022	ND	1.93	96.4	2.00	8.11	
Toluene*	<0.050	0.050	08/09/2022	ND	2.03	101	2.00	9.76	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.07	103	2.00	9.67	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.28	105	6.00	9.58	
Total BTEX	<0.300	0.300	08/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/10/2022	ND	416	104	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	08/09/2022	ND	185	92.4	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	199	99.4	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 43-149

Surrogate: 1-Chlorooctadecane 89.1 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/05/2022	Sampling Date:	08/05/2022
Reported:	08/10/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 63 @ 4 (H223519-05)

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	08/09/2022	ND	1.93	96.4	2.00	8.11	
Toluene*	<0.050	0.050	08/09/2022	ND	2.03	101	2.00	9.76	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.07	103	2.00	9.67	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.28	105	6.00	9.58	
Total BTEX	<0.300	0.300	08/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2022	ND	416	104	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	08/09/2022	ND	185	92.4	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	199	99.4	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 43-149

Surrogate: 1-Chlorooctadecane 96.1 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO				ANALYSIS REQUEST																			
Project Manager: Lane Crenshaw		P.O. #:		Company: Mewbourn		<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>																			
Address: P.O. Box 301		Attn: Connor Walker		Address: 4801 Business Blvd																					
City: Lovington State: NM Zip: 88260		City: Hobbs		State: NM Zip:																					
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Phone #:		Fax #:																					
Project #: 16334 Project Owner: Mewbourn																									
Project Name: @CWMS Queen Booster Station																									
Project Location: Rural, Loving NM.																									
Sampler Name: Dominic Pasarez																									
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		GRAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING															
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
H223519		DC																				8/5		3:50	
		FL59 @ 4																							
		FL60 @ 4																							
		FL61 @ 4																							
		FL62 @ 4																							
		FL63 @ 4																							
<p><small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>																									
Relinquished By:				Date: 8/5		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:		REMARKS:							
				Time: 3:50																					
Relinquished By:				Date:		Received By:																			
				Time:												Please email results to pm@etechenv.com .									
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																	
Sampler - UPS - Bus - Other:				Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				30.6°C C.O. 6°C 30.0°C #113				TO													



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

August 16, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 08/10/22 16:11.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: SPW 1 (H223613-01)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	08/15/2022	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	08/16/2022	ND	223	111	200	2.80	
DRO >C10-C28*	12.0	10.0	08/16/2022	ND	220	110	200	0.0282	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 83.7 % 43-149

Surrogate: 1-Chlorooctadecane 86.7 % 42.5-161

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/10/2022
 Reported: 08/16/2022
 Project Name: CWMS QUEEN BOOSTER STATION
 Project Number: 16334
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 08/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 4 (H223613-02)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 43-149

Surrogate: 1-Chlorooctadecane 92.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: EW 3 (H223613-03)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 93.3 % 43-149

Surrogate: 1-Chlorooctadecane 99.9 % 42.5-161

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Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 72 @ 4 (H223613-04)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 43-149

Surrogate: 1-Chlorooctadecane 99.5 % 42.5-161

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Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 73 @ 4 (H223613-05)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 43-149

Surrogate: 1-Chlorooctadecane 97.9 % 42.5-161

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Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 74 @ 2 (H223613-06)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 43-149

Surrogate: 1-Chlorooctadecane 96.9 % 42.5-161

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Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 75 @ 2 (H223613-07)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 96.8 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 76 @ 2 (H223613-08)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 77 @ 4 (H223613-09)

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	08/13/2022	ND	2.20	110	2.00	9.04		
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2		
Total BTEX	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06		
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05		
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND						

Surrogate: 1-Chlorooctane 81.7 % 43-149

Surrogate: 1-Chlorooctadecane 84.6 % 42.5-161

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Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 66 @ 2 (H223613-10)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 43-149

Surrogate: 1-Chlorooctadecane 91.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: WW 3 (H223613-11)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 43-149

Surrogate: 1-Chlorooctadecane 99.5 % 42.5-161

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Analytical Results For:

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

Received: 08/10/2022
 Reported: 08/16/2022
 Project Name: CWMS QUEEN BOOSTER STATION
 Project Number: 16334
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 08/10/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 64 @ 2 (H223613-12)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 43-149

Surrogate: 1-Chlorooctadecane 96.6 % 42.5-161

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Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 65 @ 2 (H223613-13)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 67 @ 4 (H223613-14)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 43-149

Surrogate: 1-Chlorooctadecane 98.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 68 @ 4 (H223613-15)

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	08/13/2022	ND	2.20	110	2.00	9.04	
Toluene*	<0.050	0.050	08/13/2022	ND	2.24	112	2.00	8.72	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.27	113	2.00	9.54	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.90	115	6.00	10.2	
Total BTEX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 109 % 43-149

Surrogate: 1-Chlorooctadecane 116 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 69 @ 4 (H223613-16)

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	08/14/2022	ND	2.03	102	2.00	6.27	
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49	
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75	
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	08/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 99.8 % 43-149

Surrogate: 1-Chlorooctadecane 107 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 70 @ 4 (H223613-17)

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	08/14/2022	ND	2.03	102	2.00	6.27	
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49	
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75	
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	08/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 102 % 43-149

Surrogate: 1-Chlorooctadecane 110 % 42.5-161

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Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/09/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 71 @ 4 (H223613-18)

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	08/14/2022	ND	2.03	102	2.00	6.27	
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49	
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75	
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	08/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/15/2022	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	08/12/2022	ND	201	100	200	2.06	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	225	112	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 43-149

Surrogate: 1-Chlorooctadecane 93.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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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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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lane Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																			
Address: 2617 West Marland				Company: Mewbourn																							
City: Hobbs State: NM Zip: 88240				Attn: Lomas Walker																							
Phone #: (575) 264-9884 Fax #:				Address: 4801 Bus Park Blvd																							
Project #: 16334 Project Owner: Mewbourn				City: Hobbs																							
Project Name: CWMS Queen Beaster Station				State: NM Zip:																							
Project Location: Rural Hobbs NM.				Phone #:																							
Sampler Name: Dominic Casera				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		MATRIX		PRESERV														SAMPLING							
H23013																											
DC11		WW3								8/10																	
12		FL 64 @ 2								↓																	
13		FL 65 @ 2								↓																	
14		FL 17 @ 4								↓																	
15		FL 68 @ 4								↓																	
16		FL 69 @ 4								↓																	
17		FL 70 @ 4								↓																	
18		FL 71 @ 4								8/9																	

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Relinquished By: <i>Dominic Casera</i>		Date: 8/10	Received By: <i>Shadrach</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: 1011	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <i>-2 Wick-O-Wee</i>		Date:	Sample Condition	REMARKS: email results	
Sampler - UPS - Bus - Other: <i>-322 #113</i>		Time:	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
			Checked By: <i>88</i>		

↑ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

August 16, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 08/11/22 16:38.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/11/2022	Sampling Date:	08/11/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 78 @ 2' (H223674-01)

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	08/16/2022	ND	2.09	105	2.00	2.65	
Toluene*	<0.050	0.050	08/16/2022	ND	2.02	101	2.00	2.38	
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.98	99.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	08/16/2022	ND	6.12	102	6.00	2.99	
Total BTEX	<0.300	0.300	08/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/16/2022	ND	448	112	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	08/15/2022	ND	227	113	200	0.625	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	170	85.0	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 84.5 % 43-149

Surrogate: 1-Chlorooctadecane 97.3 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/11/2022	Sampling Date:	08/11/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 79 @ SURFACE (H223674-02)

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	08/16/2022	ND	2.09	105	2.00	2.65		
Toluene*	<0.050	0.050	08/16/2022	ND	2.02	101	2.00	2.38		
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.98	99.1	2.00	2.81		
Total Xylenes*	<0.150	0.150	08/16/2022	ND	6.12	102	6.00	2.99		
Total BTEX	<0.300	0.300	08/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	08/16/2022	ND	448	112	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	08/15/2022	ND	227	113	200	0.625		
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	170	85.0	200	16.8		
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND						

Surrogate: 1-Chlorooctane 84.0 % 43-149

Surrogate: 1-Chlorooctadecane 97.6 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/11/2022	Sampling Date:	08/11/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 80 @ 3' (H223674-03)

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	08/16/2022	ND	2.09	105	2.00	2.65		
Toluene*	<0.050	0.050	08/16/2022	ND	2.02	101	2.00	2.38		
Ethylbenzene*	<0.050	0.050	08/16/2022	ND	1.98	99.1	2.00	2.81		
Total Xylenes*	<0.150	0.150	08/16/2022	ND	6.12	102	6.00	2.99		
Total BTEX	<0.300	0.300	08/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	08/16/2022	ND	448	112	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	08/15/2022	ND	208	104	200	0.694		
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	217	108	200	1.88		
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND						

Surrogate: 1-Chlorooctane 103 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

August 18, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 08/15/22 15:20.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/15/2022	Sampling Date:	08/15/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: SPW 2 (H223722-01)

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	08/17/2022	ND	2.02	101	2.00	5.44	
Toluene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	4.76	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.93	96.6	2.00	5.55	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.01	100	6.00	5.88	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	08/17/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	174	87.2	200	9.74	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	168	83.9	200	8.61	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 82.6 % 43-149

Surrogate: 1-Chlorooctadecane 84.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/15/2022	Sampling Date:	08/15/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: NW 2 (H223722-02)

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	08/17/2022	ND	2.02	101	2.00	5.44		
Toluene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	4.76		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.93	96.6	2.00	5.55		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.01	100	6.00	5.88		
Total BTEX	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/17/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	174	87.2	200	9.74		
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	168	83.9	200	8.61		
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND						

Surrogate: 1-Chlorooctane 79.4 % 43-149

Surrogate: 1-Chlorooctadecane 79.6 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/15/2022	Sampling Date:	08/15/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 81 @ 4 (H223722-03)

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	08/17/2022	ND	2.02	101	2.00	5.44	
Toluene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	4.76	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.93	96.6	2.00	5.55	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.01	100	6.00	5.88	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	208	104	200	9.42	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	216	108	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 90.2 % 43-149

Surrogate: 1-Chlorooctadecane 94.3 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/15/2022	Sampling Date:	08/15/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 82 @ 4 (H223722-04)

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	08/17/2022	ND	2.02	101	2.00	5.44	
Toluene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	4.76	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.93	96.6	2.00	5.55	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.01	100	6.00	5.88	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/17/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	208	104	200	9.42	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	216	108	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 43-149

Surrogate: 1-Chlorooctadecane 97.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/15/2022	Sampling Date:	08/15/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 83 @ 4 (H223722-05)

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	08/17/2022	ND	2.00	100	2.00	11.4	QM-07
Toluene*	<0.050	0.050	08/17/2022	ND	2.06	103	2.00	8.04	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.02	101	2.00	6.61	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.31	105	6.00	8.36	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/17/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	208	104	200	9.42	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	216	108	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 43-149

Surrogate: 1-Chlorooctadecane 93.8 % 42.5-161

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Notes and Definitions

- 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions				BILL TO				ANALYSIS REQUEST															
Project Manager: Lane Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>															
Address: 2617 West Marland				Company: <i>Meyburn</i>																			
City: Hobbs		State: NM		Zip: 88240		Attn: <i>Conner Walker</i>																	
Phone #: (575) 264-9884		Fax #:		Address: <i>1801 Big Park Blvd</i>																			
Project #: <i>16534</i>		Project Owner: <i>Meyburn</i>		City: <i>Hobbs</i>																			
Project Name: <i>CUMS Queen Booster Station</i>				State: <i>NM</i>																Zip:			
Project Location: <i>Aural Loring</i>				Phone #:																			
Sampler Name: <i>Daniel Carter</i>				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.				# CONTAINERS	MATRIX				PRESERV.		SAMPLING										
		(GRAB OR C/COMP.)	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME										
<i>H223732</i>												<i>8 15</i>	<i>3:20</i>										
<i>DL</i>																							
<i>1</i>																							
<i>2</i>																							
<i>3</i>																							
<i>4</i>																							
<i>5</i>																							

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Relinquished By: <i>[Signature]</i>		Date: <i>8/15</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: <i>3:20</i>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: email results			
		Time:							
Delivered By: (Circle One)		<i>26.7° C-O.62</i>		Sample Condition		CHECKED BY: (initials)			
Sampler - UPS - Bus - Other:		<i>26.1° #113</i>		<input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact		<i>[Initials]</i>			
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

August 19, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 08/16/22 16:36.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: SW3 (H223748-01)

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	08/18/2022	ND	2.08	104	2.00	10.2		
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80		
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90		
Total BTEX	<0.300	0.300	08/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	201	101	200	3.39		
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49		
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND						

Surrogate: 1-Chlorooctane 87.7 % 43-149

Surrogate: 1-Chlorooctadecane 92.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: EW4 (H223748-02)

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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 43-149

Surrogate: 1-Chlorooctadecane 84.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: WW5 (H223748-03)

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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 84 @ 4 (H223748-04)

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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 43-149

Surrogate: 1-Chlorooctadecane 96.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/16/2022	Sampling Date:	08/16/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 85 @ 5 (H223748-05)

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	08/18/2022	ND	2.08	104	2.00	10.2	
Toluene*	<0.050	0.050	08/18/2022	ND	2.01	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.96	98.1	2.00	9.80	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	6.05	101	6.00	8.90	
Total BTEX	<0.300	0.300	08/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2022	ND	201	101	200	3.39	
DRO >C10-C28*	<10.0	10.0	08/17/2022	ND	221	110	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	08/17/2022	ND					

Surrogate: 1-Chlorooctane 89.3 % 43-149

Surrogate: 1-Chlorooctadecane 96.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

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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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions		BILL TO		ANALYSIS REQUEST												
Project Manager: <u>Lane Crenshaw</u>		P.O. #:		Chloride TPH (8015M) BTEX (8021B)												
Address: 2617 West Marland		Company: <u>Newtown</u>														
City: Hobbs State: NM Zip: 88240		Attn: <u>Conner Walker</u>														
Phone #: (575) 264-9884 Fax #:		Address: <u>4801 Bus (w) Blvd</u>														
Project #: <u>16334</u> Project Owner: <u>Newtown</u>		City: <u>Hobbs</u>														
Project Name: <u>- LWS Queen Booster Station</u>		State: <u>NM</u> Zip:														
Project Location: <u>Rural Leasing N.M.</u>		Phone #:														
Sampler Name: <u>Domini Casarez</u>		Fax #:														
FOR LAB USE ONLY																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.		SAMPLING							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME		
<u>H223748</u>	<u>SW3</u>												<u>8-16</u>	<u>4:16</u>		
<u>PL</u>	<u>EW4</u>															
<u>↓</u>	<u>WWS</u>															
<u>↓</u>	<u>FL9u @4</u>															
<u>↓</u>	<u>FL8S @5</u>															

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Relinquished By: <u>[Signature]</u>	Date: <u>8-16</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: <u>4:36</u>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: email results	
	Time:			
Delivered By: (Circle One)	<u>26.6c</u>	<u>CO.6c</u>	CHECKED BY: (initials) <u>TO</u>	
Sampler - UPS - Bus - Other:	<u>26.0c #113</u>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

August 22, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 08/17/22 16:15.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 94 @ 6" (H223772-01)

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	08/19/2022	ND	2.04	102	2.00	4.61	
Toluene*	<0.050	0.050	08/19/2022	ND	2.12	106	2.00	5.77	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.08	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.51	109	6.00	6.40	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND					

Surrogate: 1-Chlorooctane 111 % 43-149

Surrogate: 1-Chlorooctadecane 116 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 93 @ 6" (H223772-02)

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	08/19/2022	ND	2.04	102	2.00	4.61	
Toluene*	<0.050	0.050	08/19/2022	ND	2.12	106	2.00	5.77	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.08	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.51	109	6.00	6.40	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND					

Surrogate: 1-Chlorooctane 105 % 43-149

Surrogate: 1-Chlorooctadecane 109 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 92 @ 6" (H223772-03)

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	08/19/2022	ND	2.04	102	2.00	4.61	
Toluene*	<0.050	0.050	08/19/2022	ND	2.12	106	2.00	5.77	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.08	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.51	109	6.00	6.40	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND					

Surrogate: 1-Chlorooctane 120 % 43-149

Surrogate: 1-Chlorooctadecane 129 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 91 @ 6" (H223772-04)

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	08/19/2022	ND	2.04	102	2.00	4.61	
Toluene*	<0.050	0.050	08/19/2022	ND	2.12	106	2.00	5.77	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.08	104	2.00	6.24	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.51	109	6.00	6.40	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 120 % 43-149

Surrogate: 1-Chlorooctadecane 126 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 90 @ 6" (H223772-05)

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	08/19/2022	ND	2.05	102	2.00	1.60	
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 121 % 43-149

Surrogate: 1-Chlorooctadecane 127 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 95 @ 6" (H223772-06)

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	08/19/2022	ND	2.05	102	2.00	1.60	
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 134 % 43-149

Surrogate: 1-Chlorooctadecane 140 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 86 @ 4 (H223772-07)

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	08/19/2022	ND	2.05	102	2.00	1.60	
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 122 % 43-149

Surrogate: 1-Chlorooctadecane 127 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 88 @ 6" (H223772-08)

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	08/19/2022	ND	2.05	102	2.00	1.60	
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 113 % 43-149

Surrogate: 1-Chlorooctadecane 118 % 42.5-161

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

Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 89 @ 6" (H223772-09)

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	08/19/2022	ND	2.05	102	2.00	1.60	
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 127 % 43-149

Surrogate: 1-Chlorooctadecane 133 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 100 @ 4 (H223772-10)

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	08/19/2022	ND	2.05	102	2.00	1.60	
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 112 % 43-149

Surrogate: 1-Chlorooctadecane 122 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/17/2022
 Reported: 08/22/2022
 Project Name: CWMS QUEEN BOOSTER STATION
 Project Number: 16334
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 08/17/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 97 @ 2 (H223772-11)

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	08/19/2022	ND	2.05	102	2.00	1.60	
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 107 % 43-149

Surrogate: 1-Chlorooctadecane 112 % 42.5-161

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Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 99 @ 1 (H223772-12)

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	08/19/2022	ND	2.05	102	2.00	1.60	
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 118 % 43-149

Surrogate: 1-Chlorooctadecane 124 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: WW 6 (H223772-13)

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	08/19/2022	ND	2.05	102	2.00	1.60	
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 126 % 43-149

Surrogate: 1-Chlorooctadecane 132 % 42.5-161

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Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 98 @ 1 (H223772-14)

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	08/19/2022	ND	2.05	102	2.00	1.60	
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 128 % 43-149

Surrogate: 1-Chlorooctadecane 136 % 42.5-161

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Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 87 @ 6" (H223772-15)

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	08/19/2022	ND	2.05	102	2.00	1.60	
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 125 % 43-149

Surrogate: 1-Chlorooctadecane 132 % 42.5-161

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Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: SW 4 (H223772-16)

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	08/19/2022	ND	2.05	102	2.00	1.60		
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05		
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28		
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41		
Total BTEX	<0.300	0.300	08/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548		
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04		
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND						

Surrogate: 1-Chlorooctane 123 % 43-149

Surrogate: 1-Chlorooctadecane 131 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/17/2022
 Reported: 08/22/2022
 Project Name: CWMS QUEEN BOOSTER STATION
 Project Number: 16334
 Project Location: MEWBOURNE - RURAL LOVING, NM

Sampling Date: 08/17/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 5 (H223772-17)

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	08/19/2022	ND	2.05	102	2.00	1.60	
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 115 % 43-149

Surrogate: 1-Chlorooctadecane 120 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/17/2022	Sampling Date:	08/17/2022
Reported:	08/22/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 96 @ 1 (H223772-18)

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	08/19/2022	ND	2.05	102	2.00	1.60	
Toluene*	<0.050	0.050	08/19/2022	ND	2.13	107	2.00	4.05	
Ethylbenzene*	<0.050	0.050	08/19/2022	ND	2.10	105	2.00	4.28	
Total Xylenes*	<0.150	0.150	08/19/2022	ND	6.55	109	6.00	4.41	
Total BTEX	<0.300	0.300	08/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	212	106	200	0.0548	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	219	110	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 129 % 43-149

Surrogate: 1-Chlorooctadecane 136 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

August 23, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 08/22/22 15:10.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/22/2022	Sampling Date:	08/22/2022
Reported:	08/23/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	** (See Notes)
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: EW 4A (H223837-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/23/2022	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

August 24, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 08/23/22 11:17.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/23/2022	Sampling Date:	08/23/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: FL 92 @ 1' (H223854-01)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/23/2022	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

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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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions		BILL TO		ANALYSIS REQUEST											
Project Manager: LANE CREASMAN		P.O. #:		Chloride TPH (8015M) BTEX (8021B)											
Address: 2617 West Marland		Company: Mowbourn													
City: Hobbs State: NM Zip: 88240		Attn: Conner Walker													
Phone #: (575) 264-9884 Fax #:		Address: 4801 Bus Ark Blvd													
Project #: 16394 Project Owner: Mowbourn		City: Hobbs													
Project Name: CWMS Queen Boster Station		State: NM Zip:													
Project Location: Arrwl Loving NM.		Phone #:													
Sampler Name: David Robinson		Fax #:													
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	
H223854 DL	FL92@1					✓							8 23		

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Relinquished By:	Date: 8 23	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 1117	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) 5.10 C.O.V.:	Sampler - UPS - Bus - Other: 4.5: #113	Sample Condition: Cool Intact Yes No	REMARKS: email results	
CHECKED BY: (Initials)				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

February 22, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 02/16/23 15:50.

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

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: SH 1 @ 6" (H230748-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/21/2023	ND	416	104	400	3.92	
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	02/21/2023	ND	231	116	200	7.25	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	225	113	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	106 %	48.2-134							
Surrogate: 1-Chlorooctadecane	105 %	49.1-148							

Sample ID: SH 1 @ 2' (H230748-02)

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	02/21/2023	ND	416	104	400	3.92	
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	02/21/2023	ND	231	116	200	7.25	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	225	113	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	102 %	48.2-134							
Surrogate: 1-Chlorooctadecane	102 %	49.1-148							

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: SH 2 @ 6" (H230748-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/21/2023	ND	416	104	400	3.92	
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	02/21/2023	ND	231	116	200	7.25	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	225	113	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	105 %	48.2-134							
Surrogate: 1-Chlorooctadecane	104 %	49.1-148							

Sample ID: SH 2 @ 2' (H230748-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/21/2023	ND	416	104	400	3.92	
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	02/21/2023	ND	231	116	200	7.25	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	225	113	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	103 %	48.2-134							
Surrogate: 1-Chlorooctadecane	103 %	49.1-148							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/16/2023	Sampling Date:	02/16/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: SH 3 @ 6" (H230748-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/21/2023	ND	416	104	400	3.92	
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	02/21/2023	ND	231	116	200	7.25	
DRO >C10-C28*	292	10.0	02/21/2023	ND	225	113	200	3.46	
EXT DRO >C28-C36	81.1	10.0	02/21/2023	ND					
<i>Surrogate: 1-Chlorooctane</i>		<i>113 %</i>	<i>48.2-134</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>115 %</i>	<i>49.1-148</i>						

Sample ID: SH 3 @ 2' (H230748-06)

Chloride, SM4500CI-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	02/21/2023	ND	416	104	400	3.92	
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	02/21/2023	ND	231	116	200	7.25	
DRO >C10-C28*	235	10.0	02/21/2023	ND	225	113	200	3.46	
EXT DRO >C28-C36	68.6	10.0	02/21/2023	ND					
<i>Surrogate: 1-Chlorooctane</i>		<i>104 %</i>	<i>48.2-134</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>107 %</i>	<i>49.1-148</i>						

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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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Celey D. Keene, Lab Director/Quality Manager



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

February 27, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS QUEEN BOOSTER STATION

Enclosed are the results of analyses for samples received by the laboratory on 02/23/23 16:20.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/23/2023	Sampling Date:	02/23/2023
Reported:	02/27/2023	Sampling Type:	Soil
Project Name:	CWMS QUEEN BOOSTER STATION	Sampling Condition:	Cool & Intact
Project Number:	16334	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL LOVING, NM		

Sample ID: SH 3B @ 6" (H230861-01)

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	02/24/2023	ND	237	118	200	19.7		
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1		
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND						
<i>Surrogate: 1-Chlorooctane</i>		<i>96.0 %</i>	<i>48.2-134</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>101 %</i>	<i>49.1-148</i>							

Sample ID: SH 3B @ 2' (H230861-02)

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	02/24/2023	ND	237	118	200	19.7		
DRO >C10-C28*	<10.0	10.0	02/24/2023	ND	218	109	200	17.1		
EXT DRO >C28-C36	<10.0	10.0	02/24/2023	ND						
<i>Surrogate: 1-Chlorooctane</i>		<i>98.3 %</i>	<i>48.2-134</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>102 %</i>	<i>49.1-148</i>							

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Celey D. Keene, Lab Director/Quality Manager

Appendix E

Regulatory Correspondence

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, January 18, 2023 9:34:59 AM
To: Connor Walker <cwalker@mewbourne.com>
Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 156225

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2215950306, for the following reasons:

- **The Closure Report is Denied. Sidewall soil sample location SPW 2 is 1,780 mg/kg for Chlorides. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Chain of Custody and Analysis Request form on 7/28/22 show samples not received at proper temperature of 6 deg. Celsius or below. Samples were delivered at temperature of 34.1 deg. Celsius. Other samples relinquished over 6 deg. Celsius were 7/29/22 at 33.0 deg. Celsius, 8/1/22 at 32.7 deg. Celsius, 8/3/22 at 31.0 deg. Celsius, 8/5/22 at 30.0 deg. Celsius, 8/11/22 at 28.7 deg. Celsius, 8/15/22 at 26.1 deg. Celsius, 8/16/22 at 26 deg. Celsius, 8/17/22 at 28.0 deg. Celsius, and 8/22/22 at 25.2 deg. Celsius.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 156225.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Friday, January 20, 2023 9:54:13 AM
To: Lance Crenshaw <lance@etechenv.com>
Cc: Joel Lowry <joel@etechenv.com>
Subject: Mewbourne -CWMS Queen Booster Station - (NAPP2215950306)

Some people who received this message don't often get email from robert.hamlet@emnrd.nm.gov. [Learn why this is important](#)

Lance,

I had a discussion with Mike about the Mewbourne release. We can let the confirmation samples go with a warning this time. He wanted me to stress to you guys on future projects that if samples didn't arrive at proper temperature at the lab, they would need to be recompleted and resubmitted.

Please include this email in the resubmitted closure report.

Regards,

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/>



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
District IV
 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 198376

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 198376
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2215950306 CWMS - QUEEN BOOSTER STATION, thank you. This closure is approved.	7/31/2023