

Incident ID	nAPP2225255046
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	350 (ft bgs)
Did this 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 an 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 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

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

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

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

State of New Mexico
Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Connor Walker Title: Sr. Engineer

Signature: _____ Date: _____

email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2225255046
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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: _____

email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

Received by: _____ Date: _____

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: _____

Printed Name: _____ Title: _____

Remediation Summary & Soil Closure Request

Mewbourne Oil Company Wellspring Paduca SWD Booster

Lea County, New Mexico
Unit Letter "E", Section 6, Township 26 South, Range 32 East
Latitude 32.0722570 North, Longitude 103.718906 West
NMOCD Reference No. nAPP2225255046

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* for the release site known as the Wellspring Paduca SWD Booster (henceforth, "Wellspring Paduca"). Details of the release are summarized below:

Location of Release Source				
Latitude: <u>32.0722570</u>		Longitude: <u>-103.718906</u>		
Provided GPS are in WGS84 format.				
Site Name: <u>Wellspring Paduca SWD Booster</u>		Site Type: <u>Pipeline</u>		
Date Release Discovered: <u>8/29/2022</u>		API # (if applicable): <u>N/A</u>		
Unit Letter	Section	Township	Range	County
"E"	6	26S	32E	Lea
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Private (Name <u>Jesse T. Baker</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>251</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 discharge hose on an inline booster pump failed and split.</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

Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Wellspring Paduca 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.

	350'	
What is the shallowest depth to groundwater beneath the area affected by the release?		
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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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 Wellspring Paduca release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
350'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	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 October 11, 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 floors of the excavated area to be submitted for laboratory analysis.

On October 11, 2022, Etech collected 10 confirmation soil samples (NW 1, EW 1, EW 2, EW 3, WW 1, WW 2, and FL 1 @ 1' through FL 4 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also below the laboratory method detection limit (MDL). TPH concentrations were below the laboratory MDL in each of the submitted soil samples, with the exception of soil sample NW 1, which exhibited a TPH concentration of 133 mg/kg and exceeded the NMOCD Reclamation Standard. Chloride concentrations ranged from 112 mg/kg in soil samples EW 3 and FL 2 @ 1' to 400 mg/kg in soil sample FL 1 @ 1'.

On October 12, 2022, Etech collected 10 confirmation soil samples (EW 4, WW 3, WW 4, and FL 5 @ 1' through FL 11 @ 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 96.0 mg/kg in soil sample FL 9 @ 3' to 528 mg/kg in soil sample EW 4.

On October 13, 2022, Etech collected eight (8) confirmation soil samples (EW 5 and FL 12 @ 3' through FL 18 @ 3') 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 ranged from 176 mg/kg in soil sample FL 17 @ 3' to 1,010 mg/kg in soil sample FL 18 @ 3'. The chloride concentrations in soil samples FL 13 @ 3', FL 15 @ 3', and FL 18 @ 3' exceeded the NMOCD Reclamation Standard.

On October 14, 2022, Etech collected four (4) confirmation soil samples (WW 5, FL 19 @ 4', FL 20 @ 4', and FL 21 @ 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 352 mg/kg in soil sample WW 5 to 1,490 mg/kg in soil sample FL 19 @ 4'.

On October 20, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples NW 1, FL 13, FL 15, and FL 18. Etech collected 23 confirmation soil samples (NW 1B, NW 2, NW 3, EW 6, EW 7, EW 8, SW 1, WW 6, FL 13, FL 15, FL 18, and FL 22 @ 4' through FL 33 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or 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 EW 7 to 1,520 mg/kg in soil sample FL 27 @ 4'.

On October 24, 2022, Etech collected 26 confirmation soil samples (NW 4, EW 9, EW 10, EW 11, SW 2, WW 7, and FL 34 @ 4' through FL 53 @ 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 16.0 mg/kg in soil samples NW 4, EW 10, EW 11, FL 49 @ 2', FL 50 @ 4', FL 52 @ 2', and FL 53 @ 2' to 1,410 mg/kg in soil sample FL 48 @ 4'.

On October 25, 2022, Etech collected 18 confirmation soil samples (EW 12, EW 13, SW 3, WW 8 through WW 11, and FL 54 @ 2' through FL 64 @ 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 16.0 mg/kg in soil sample FL 56 @ 2' to 480 mg/kg in soil sample EW 12.

The final dimensions of the excavated area were approximately 298 to 560 feet in length, 12 to 40 feet in width, and one (1) to five (5) feet in depth. During the course of remediation activities, Etech transported approximately 1,300 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 1,608 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 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* to the appropriate agencies and request closure be granted to the Wellspring Paduca release site.

7.0 LIMITATIONS

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

This report has been prepared for the benefit of Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

8.0 DISTRIBUTION

Mewbourne Oil Company

4801 Business Park Blvd.

Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

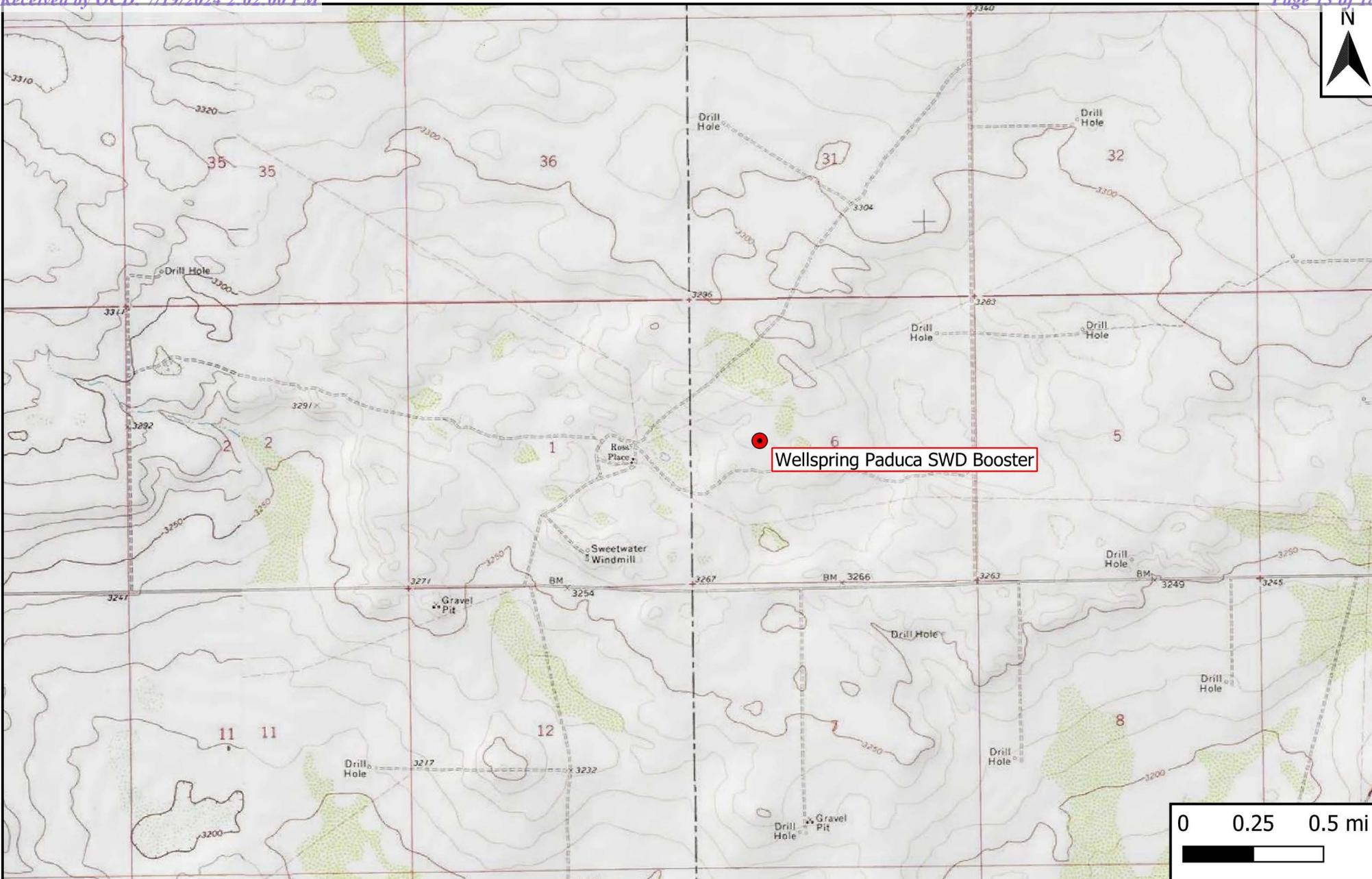
Oil Conservation Division, District 1

1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1 Topographic Map



Legend
 ● Site Location

Figure 1
 Topographic Map
 Mewbourne Oil Company
 Wellspring Paduca SWD Booster
 GPS: 32.072257, -103.718906
 Lea County

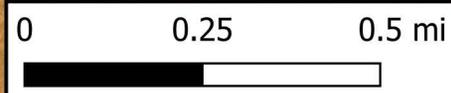
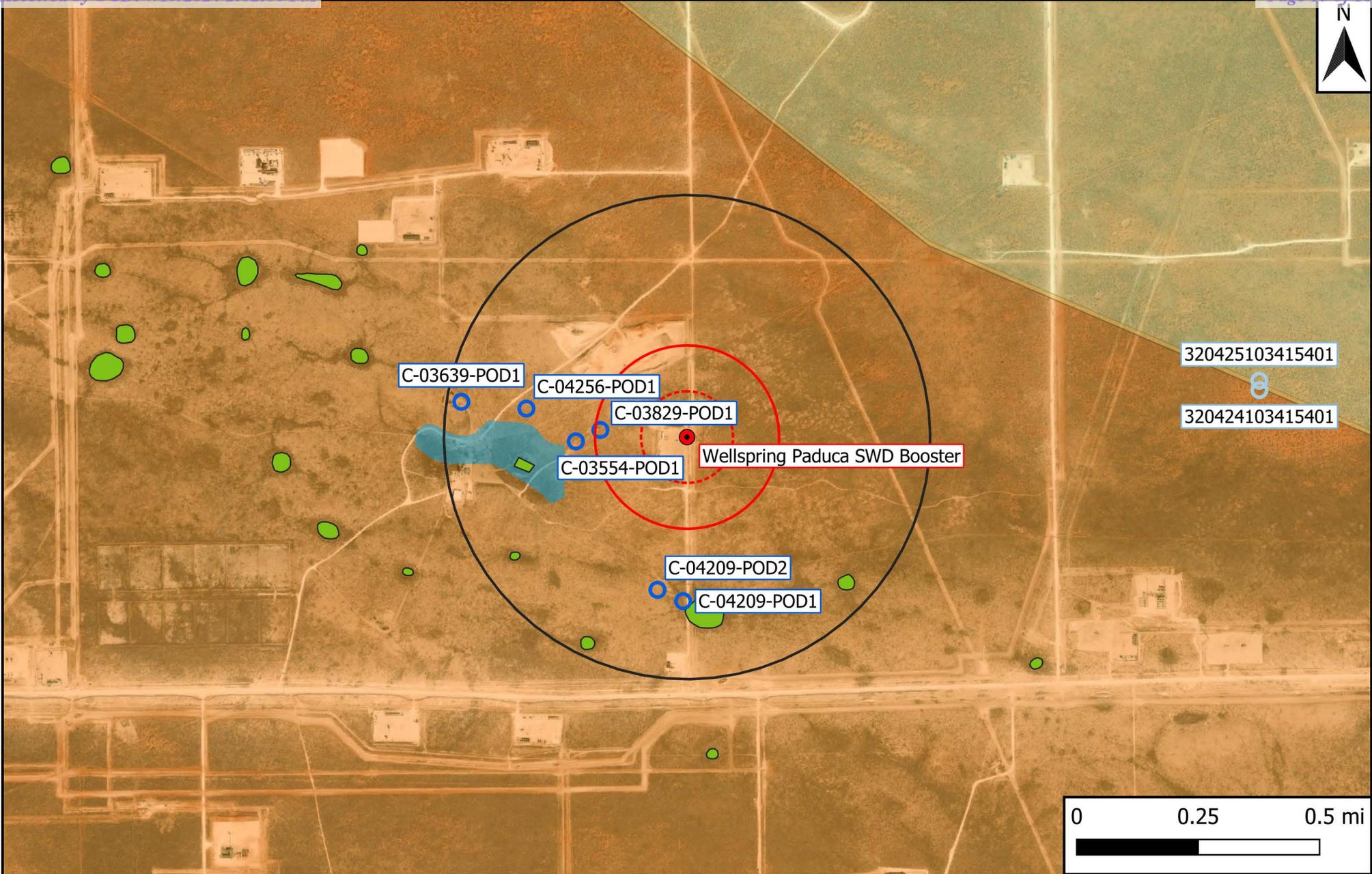


Drafted: bja

Checked: lc

Date: 10/25/22

Figure 2 Site Characterization Map



Legend		
Site Location	100-Year Floodplain	500-Ft Radius
Well - NMOSE	Emergent/Forested Wetlands	1,000-Ft Radius
Well - USGS	Freshwater Pond/Lake	0.5-Mi Radius
Well - Exploratory/Monitor	Karst Potential (Low/Med./High)	Municipal Boundary
Potash Mine Workings	Riverine	

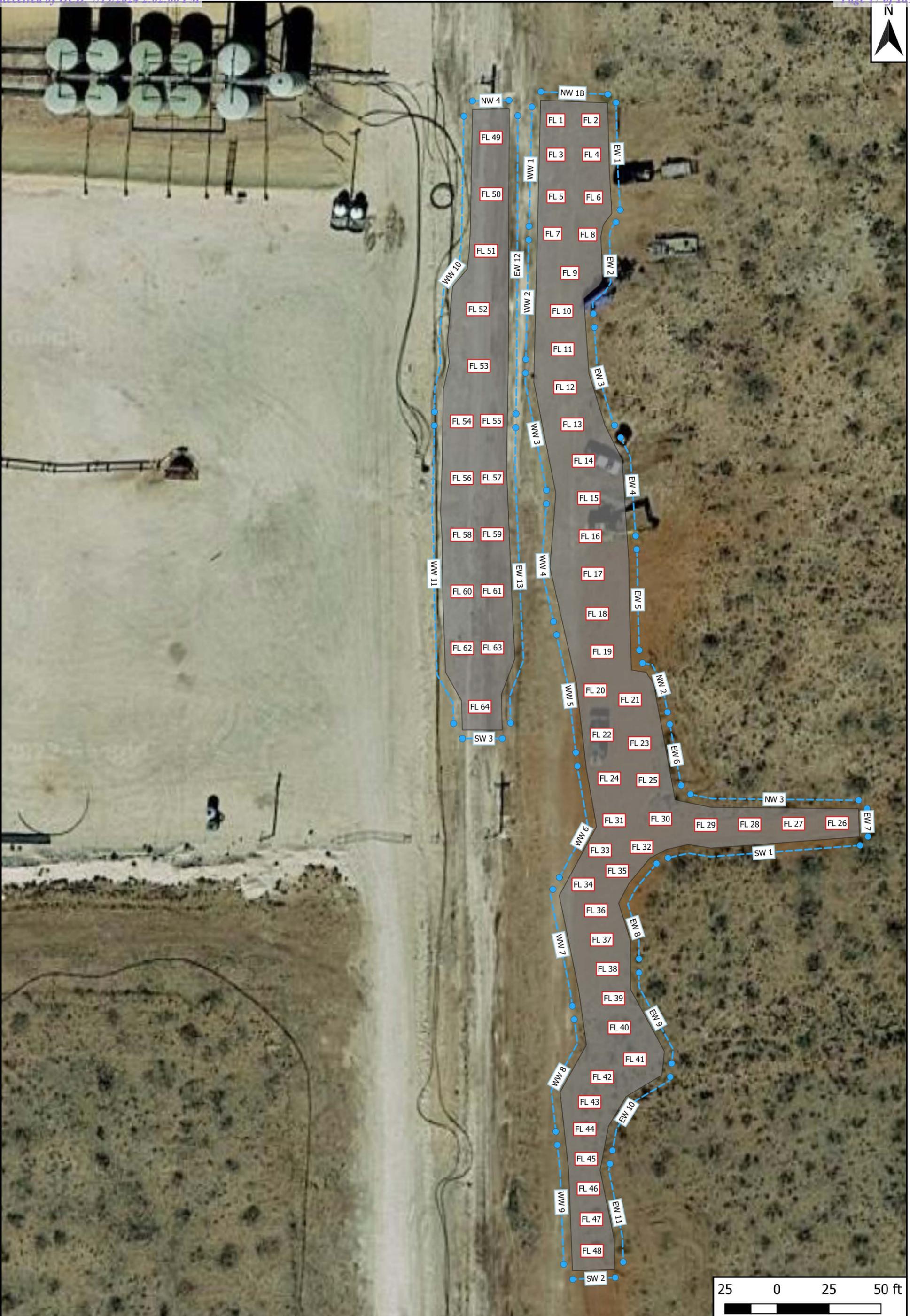
Figure 2
 Site Characterization Map
 Mewbourne Oil Company
 Wellspring Paduca SWD Booster
 GPS: 32.072257, -103.718906
 Lea County



Drafted: bja Checked: lc Date: 10/25/22

Figure 3

Site & Sample Location Map



Legend	
	Excavation Extent
	Composite Floor Sample
	Composite Wall Sample

Figure 3
 Site & Sample Location Map
 Mewbourne Oil Company
 Wellspring Paduca SWD Booster
 GPS: 32.072257, -103.718906
 Lea County



ETECH
Environmental & Safety Solutions, Inc.



Drafted: bja
Checked: lc
Date: 11/26/22

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Mewbourne Oil Company
Wellspring Paduca SWD Booster
NMOCD Ref. #: nAPP2225255046

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
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)
NW 1	10/11/2022	0-1	Excavated	<0.050	<0.300	<10.0	133	133	<10.0	133	240
NW 1B	10/20/2022	0-1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
NW 2	10/20/2022	0-4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	288
NW 3	10/20/2022	0-4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 4	10/24/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 1	10/11/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
EW 2	10/11/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EW 3	10/11/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EW 4	10/12/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
EW 5	10/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
EW 6	10/20/2022	0-4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	256
EW 7	10/20/2022	0-4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 8	10/20/2022	0-4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW 9	10/24/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
EW 10	10/24/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 11	10/24/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 12	10/25/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
EW 13	10/25/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 1	10/20/2022	0-4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW 2	10/24/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW 3	10/25/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
WW 1	10/11/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
WW 2	10/11/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
WW 3	10/12/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW 4	10/12/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
WW 5	10/14/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
WW 6	10/20/2022	0-4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW 7	10/24/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
WW 8	10/25/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
WW 9	10/25/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
WW 10	10/25/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
WW 11	10/25/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 1 @ 1'	10/11/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 2 @ 1'	10/11/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 3 @ 1'	10/11/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 4 @ 1'	10/11/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 5 @ 1'	10/12/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 6 @ 1'	10/12/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 7 @ 1'	10/12/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 8 @ 1'	10/12/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 9 @ 3'	10/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 10 @ 3'	10/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 11 @ 2'	10/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192

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
Wellspring Paduca SWD Booster
NMOCD Ref. #: nAPP2225255046

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
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 12 @ 3'	10/13/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 13 @ 3'	10/13/2022	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
FL 13	10/20/2022	4	In-Situ	-	-	-	-	-	-	-	384
FL 14 @ 3'	10/13/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FL 15 @ 3'	10/13/2022	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
FL 15	10/20/2022	4	In-Situ	-	-	-	-	-	-	-	176
FL 16 @ 3'	10/13/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL 17 @ 3'	10/13/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 18 @ 3'	10/13/2022	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,010
FL 18	10/20/2022	4	In-Situ	-	-	-	-	-	-	-	224
FL 19 @ 4'	10/14/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,490
FL 20 @ 4'	10/14/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	912
FL 21 @ 4'	10/14/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 22 @ 4'	10/20/2022	4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 23 @ 4'	10/20/2022	4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 24 @ 4'	10/20/2022	4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	608
FL 25 @ 4'	10/20/2022	4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 26 @ 4'	10/20/2022	4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	1,200
FL 27 @ 4'	10/20/2022	4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	1,520
FL 28 @ 4'	10/20/2022	4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 29 @ 4'	10/20/2022	4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL 30 @ 4'	10/20/2022	4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	800
FL 31 @ 4'	10/20/2022	4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	464
FL 32 @ 4'	10/20/2022	4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 33 @ 4'	10/20/2022	4	In-Situ	<0.025	<0.150	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 34 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
FL 35 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 36 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
FL 37 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
FL 38 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
FL 39 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 40 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 41 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL 42 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	912
FL 43 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
FL 44 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
FL 45 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 46 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,260
FL 47 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,120
FL 48 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,410
FL 49 @ 2'	10/24/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 50 @ 4'	10/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 51 @ 2'	10/24/2022	2	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.

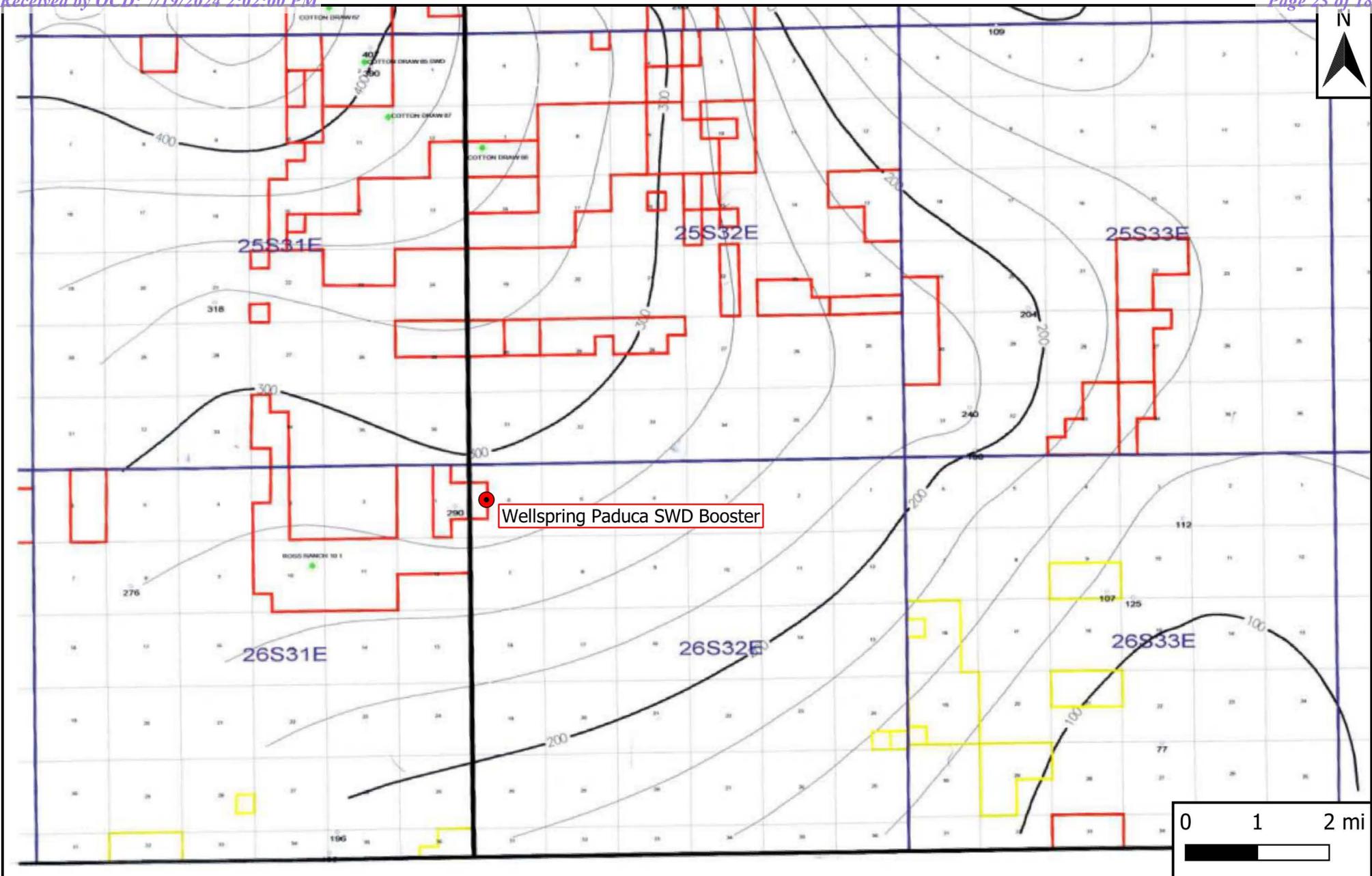
Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Wellspring Paduca SWD Booster NMOCD Ref. #: nAPP2225255046											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil 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 52 @ 2'	10/24/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 53 @ 2'	10/24/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 54 @ 2'	10/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 55 @ 2'	10/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 56 @ 2'	10/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 57 @ 2'	10/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 58 @ 2'	10/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 59 @ 2'	10/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 60 @ 2'	10/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 61 @ 2'	10/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 62 @ 2'	10/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 63 @ 2'	10/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 64 @ 2'	10/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320

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
 Wellspring Paduca SWD Booster
 GPS: 32.072257, -103.718906
 Lea County



Drafted: bja

Checked: lc

Date: 10/25/22



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_03829 POD1	CUB	LE	3 3 1 06	26S	32E	620628	3549186	288	646	350	296				
C_03554 POD1	CUB	ED	2 1 4 01	26S	31E	620547	3549148	368	630	300	330				
C_04209 POD2	C	LE	2 3 3 06	26S	32E	620818	3548657	514	340	155	185				
C_04209 POD1	CUB	LE	2 3 3 06	26S	32E	620903	3548619	540	360	155	205				
C_04256 POD1	C	ED	4 4 2 01	26S	31E	620384	3549257	543	666	340	326				
C_03639 POD1	CUB	ED	3 4 2 01	26S	31E	620168	3549279	756	700	365	335				

Average Depth to Water: **277 feet**
 Minimum Depth: **155 feet**
 Maximum Depth: **365 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 620915.61

Northing (Y): 3549162.74

Radius: 804.67

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WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
C	03829 POD1	3 3 1	06	26S	32E	620628	3549186

Driller License: 1607	Driller Company: DURAN DRILLING	
Driller Name: DURAN, LUIS (TONY)		
Drill Start Date: 02/11/2015	Drill Finish Date: 02/12/2015	Plug Date:
Log File Date: 02/23/2015	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 58 GPM
Casing Size: 7.00	Depth Well: 646 feet	Depth Water: 350 feet

Water Bearing Stratifications:	Top	Bottom	Description
	330	337	Sandstone/Gravel/Conglomerate
	390	470	Sandstone/Gravel/Conglomerate
	580	610	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	341	645

Meter Number: 16581	Meter Make: MASTERMETER
Meter Serial Number: 32531561	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
03/03/2015	2015	0	A	RPT		0
04/02/2015	2015	4343	A	RPT		1.333
04/30/2015	2015	4343	A	RPT		0
05/31/2015	2015	4343	A	RPT		0
07/01/2015	2015	4343	A	RPT		0
08/01/2015	2015	4343	A	RPT		0
08/31/2015	2015	4616	A	RPT		0.084
10/01/2015	2015	4616	A	RPT		0

**YTD Meter Amounts:	Year	Amount
	2015	1.417

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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
C	03554 POD1	2 1 4	01	26S	31E	620547	3549148

Driller License: 1654	Driller Company: NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC	
Driller Name:		
Drill Start Date: 10/22/2012	Drill Finish Date: 10/26/2012	Plug Date:
Log File Date: 10/29/2012	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 10.00	Depth Well: 630 feet	Depth Water: 300 feet

Water Bearing Stratifications:	Top	Bottom	Description
	350	360	Sandstone/Gravel/Conglomerate
	550	600	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	570	630

Meter Number: 16569	Meter Make: MASTERMETER
Meter Serial Number: 8149888	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
04/01/2014	2014	73841	A	RPT	0
07/01/2014	2014	98877	A	RPT	7.683
12/31/2014	2014	131292	A	RPT	9.948
02/01/2015	2015	135717	A	RPT	1.358
03/02/2015	2015	141038	A	RPT	1.633
04/01/2015	2015	147017	A	RPT	1.835
04/30/2015	2015	154655	A	RPT	2.344
05/31/2015	2015	161539	A	RPT	2.113
07/01/2015	2015	168829	A	RPT	2.237
08/01/2015	2015	173843	A	RPT	1.539
08/31/2015	2015	180421	A	RPT	2.019
10/01/2015	2015	187448	A	RPT	2.157

**YTD Meter Amounts:	Year	Amount
	2014	17.631
	2015	17.235

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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)						
Well Tag	POD Number	(quarters are smallest to largest)	(NAD83 UTM in meters)					
		Q64 Q16 Q4 Sec TwS Rng	X Y					
NA	C 04209 POD2	2 3 3 06 26S 32E	620818 3548657					

Driller License: 1706	Driller Company: ELITE DRILLERS CORPORATION	
Driller Name: BRYCE WALLACE		
Drill Start Date: 05/07/2018	Drill Finish Date: 05/09/2018	Plug Date:
Log File Date: 05/21/2018	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 5 GPM
Casing Size: 6.00	Depth Well: 340 feet	Depth Water: 155 feet

Water Bearing Stratifications:	Top	Bottom	Description
	18	320	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	200	340

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9/20/22 1:21 PM

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 04209 POD1	2	3	3	06	26S	32E	620903	3548619

Driller License: 1706	Driller Company: ELITE DRILLERS CORPORATION	
Driller Name: BRYCE WALLACE		
Drill Start Date: 04/28/2018	Drill Finish Date: 05/01/2018	Plug Date:
Log File Date: 05/21/2018	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 25 GPM
Casing Size: 6.00	Depth Well: 360 feet	Depth Water: 155 feet

Water Bearing Stratifications:	Top	Bottom	Description
	15	350	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	200	360

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

9/20/22 1:24 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number								
NA	C 04256 POD1								

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

	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	4	4	2	01	26S	31E	620384	3549257

Driller License: 1706	Driller Company: ELITE DRILLERS CORPORATION	
Driller Name: BRYCE WALLACE		
Drill Start Date: 06/28/2018	Drill Finish Date: 07/04/2018	Plug Date:
Log File Date: 07/18/2018	PCW Rev Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield: 40 GPM
Casing Size: 5.80	Depth Well: 666 feet	Depth Water: 340 feet

Water Bearing Stratifications:	Top	Bottom	Description
	330	390	Sandstone/Gravel/Conglomerate
	390	430	Sandstone/Gravel/Conglomerate
	430	480	Sandstone/Gravel/Conglomerate
	480	610	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	326	666

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9/20/22 1:25 PM

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	03639 POD1	3	4	2	01	26S	31E	620168	3549279

Driller License: 1654	Driller Company: NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC	
Driller Name:		
Drill Start Date: 09/23/2013	Drill Finish Date: 09/25/2013	Plug Date:
Log File Date: 10/25/2013	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 6.00	Depth Well: 700 feet	Depth Water: 365 feet

Water Bearing Stratifications:	Top	Bottom	Description
	560	600	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	600	660

Meter Number: 16575	Meter Make: MASTERMETER
Meter Serial Number: 8827642	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
12/26/2013	2013	4487	A	RPT		0
04/01/2014	2014	15593	A	RPT		3.408
07/01/2014	2014	27654	A	RPT		3.701
10/01/2014	2014	43114	A	RPT		4.744
12/31/2014	2014	54047	A	RPT		3.355
02/01/2015	2015	55287	A	RPT		0.381
03/02/2015	2015	56670	A	RPT		0.424
04/02/2015	2015	60341	A	RPT		1.127
04/30/2015	2015	65590	A	RPT		1.611
05/31/2015	2015	71252	A	RPT		1.738
07/01/2015	2015	74451	A	RPT		0.982
08/01/2015	2015	77975	A	RPT		1.081
08/31/2015	2015	82253	A	RPT		1.313
10/01/2015	2015	86369	A	RPT		1.263

**YTD Meter Amounts:	Year	Amount
	2013	0
	2014	15.208
	2015	9.920

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



- 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
 Wellspring Paduca SWD Booster
 GPS: 32.072257, -103.718906
 Lea County



Drafted: bja

Checked: jc

Date: 10/25/22



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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
• 320424103415401

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

USGS 320424103415401 26S.31E.01.421322

Eddy County, New Mexico
Latitude 32°04'24", Longitude 103°41'54" NAD27
Land-surface elevation 3,294 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

- [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
1983-01-26			D	72019	290.12		1	Z			A
1983-02-14			D	72019	289.42		1	Z			A
1987-10-21			D	72019	289.90		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
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](#)

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0.34 0.26 nadww01



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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs
 site_no list =
 • 320425103415401

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

USGS 320425103415401 26S.31E.01.42110

Eddy County, New Mexico
 Latitude 32°04'25", Longitude 103°41'54" NAD27
 Land-surface elevation 3,295 feet above NAVD88
 The depth of the well is 340 feet below land surface.
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.
 This well is completed in the Rustler Formation (312RSLR) 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
1949-03-10		D	72019	287.70			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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Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-09-20 13:16:28 EDT

0.35 0.28 nadww01

Appendix B

Field Data & Soil Profile Logs



Sample Log

Date: _____

Project: Wellspring Paduca SWD Booster

Project Number: 16824 Latitude: 32.072257 Longitude: -103.718906

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1@1	---	588	
FL2@1	---	536	
FL3@1	---	536	
FL4@1	---	588	
WW1	---	588	
NW1	---	400	
EW1	---	588	
WW2	---	588	
EW2	---	488	
EW3	---	356	
FL5@1	---	588	
FL6@1	---	488	
FL7@1	---	588	
FL8@1	---	536	
FL9@3	---	356	
FL10@3	---	588	
FL11@1	---	588	
WW3	---	444	
EW4	---	444	
FL12@3	---	536	
FL13@3	---	580	
FL14	---	536	
WW4	---	588	
EW5	---	588	
FL15@3	---	588	
FL16@4	---	424	
FL17@4	---	572	
FL18@3	---	588	
FL19@4	---	1364	
FL20@4	---	954	
FL21@4	---	520	
WW5	---	572	
WW6	---	572	
FL22@4	---	520	
FL23@4	---	812	
FL24@4	---	832	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Wellspring Paduca SWD Booster

Project Number: 16824 Latitude: 32.072257 Longitude: -103.718906

Sample ID	PID/Odor	Chloride Conc.	GPS
FL26 @4	—	628	
NW2	—	572	
EW6	—	520	
FL26 @4	—	1,364	
FL27 @4	—	1,104	
NW3	—	520	
EW7	—	468	
SW1	—	520	
NW18	—	468	
FL18 @4	—	520	
FL28 @4	—	468	
FL29 @4	—	812	
FL13 @4	—	812	
FL15 @4	—	812	
FL30 @4	—	688	
FL31 @4	—	952	
FL32 @4	—	952	
FL33 @4	—	688	
EW8	—	520	
EW9	—	572	
NW7	—	520	
FL34 @4	—	880	
FL35 @4	—	572	
FL36 @4	—	880	
FL37 @4	—	628	
FL38 @4	—	812	
FL39 @4	—	572	
FL40 @4	—	880	
FL41 @4	—	812	
FL42 @4	—	1,028	
FL43 @4	—	812	
FL44 @4	—	880	
FL45 @4	—	886	
FL46 @4	—	1,028	
FL47 @4	—	886	
SW2	—	572	

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: Wellspring Paduca SWD Booster

Project Number: 16824 Latitude: 32.072257 Longitude: -103.718906

Depth (ft. bgs)

Description

1	Sand, Loam
2	Caliche
3	Caliche-rock
4	Caliche-rock
5	
6	
7	
8	
9	
10	
11	
12	
13	
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40	

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: North	
Photo Description: View of the affected area.	

Photo Number: 2	
Photo Direction: Northeast	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	 <p>Aug 29, 2022 at 11:04:53 AM</p> <p>32.072256, -103.718739</p>
Photo Direction: North	
Photo Description: View of the affected area.	

Photo Number: 4	 <p>Aug 29, 2022 at 11:05:19 AM</p> <p>+32.070329, -103.718787</p>
Photo Direction: North-Northwest	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	
Photo Direction: North-Northwest	
Photo Description: View of the affected area.	

Photo Number: 6	
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 7	 <p>October 25, 2022 at 1:25:04 PM +32.072617,-103.718565 Jal, NM 88252</p>
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photo Number: 8	 <p>October 25, 2022 at 1:26:10 PM +32.072152,-103.718723 Jal, NM 88252</p>
Photo Direction: North-Northwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 9	 <p>October 25, 2022 at 1:25:36 PM +32.072554,-103.718643 Jal, NM 88252</p>
Photo Direction: South-Southeast	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>October 25, 2022 at 1:25:20 PM +32.072617,-103.718565 Jal, NM 88252</p>
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	 <p data-bbox="1096 926 1469 997">+32.072679,-103.718592 11/3/22, 2:20 PM</p>
Photo Direction: South	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 12	 <p data-bbox="1096 1810 1469 1881">+32.072217,-103.718703 11/3/22, 2:19 PM</p>
Photo Direction: South	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 13	 <p data-bbox="1096 926 1471 997">+32.071018,-103.718687 11/3/22, 2:15 PM</p>
Photo Direction: North	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 14	 <p data-bbox="1096 1810 1471 1881">+32.071031,-103.718794 11/3/22, 2:16 PM</p>
Photo Direction: North	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log

Photo Number: 15	 <p data-bbox="1096 926 1471 997">+32.071529,-103.718792 11/3/22, 2:17 PM</p>
Photo Direction: East-Northeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 16	 <p data-bbox="1096 1810 1471 1881">+32.071622,-103.718787 11/3/22, 2:17 PM</p>
Photo Direction: North-Northeast	
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

October 17, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WELL SPRING PADUCA SWD BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 10/11/22 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,

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:	10/11/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 1 @ 1 (H224783-01)

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	10/15/2022	ND	2.06	103	2.00	3.43	
Toluene*	<0.050	0.050	10/15/2022	ND	2.02	101	2.00	3.40	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	1.99	99.5	2.00	3.82	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.04	101	6.00	4.93	
Total BTEX	<0.300	0.300	10/15/2022	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	400	16.0	10/13/2022	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	10/13/2022	ND	205	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.3 % 46.3-178

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:	10/11/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 2 @ 1 (H224783-02)

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	10/14/2022	ND	2.06	103	2.00	3.43	
Toluene*	<0.050	0.050	10/14/2022	ND	2.02	101	2.00	3.40	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.5	2.00	3.82	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.04	101	6.00	4.93	
Total BTEX	<0.300	0.300	10/14/2022	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	112	16.0	10/13/2022	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	10/13/2022	ND	205	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.4 % 46.3-178

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:	10/11/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 3 @ 1 (H224783-03)

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	10/14/2022	ND	2.06	103	2.00	3.43	
Toluene*	<0.050	0.050	10/14/2022	ND	2.02	101	2.00	3.40	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.5	2.00	3.82	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.04	101	6.00	4.93	
Total BTEX	<0.300	0.300	10/14/2022	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	144	16.0	10/13/2022	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	10/13/2022	ND	205	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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:	10/11/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 4 @ 1 (H224783-04)

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	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	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	192	16.0	10/13/2022	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	10/13/2022	ND	205	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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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:	10/11/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: NW 1 (H224783-05)

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	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	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	240	16.0	10/13/2022	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	10/13/2022	ND	205	103	200	1.56	
DRO >C10-C28*	133	10.0	10/13/2022	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 96.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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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:	10/11/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: WW 1 (H224783-06)

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	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	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	304	16.0	10/13/2022	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	10/13/2022	ND	205	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	215	107	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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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:	10/11/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: WW 2 (H224783-07)

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	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	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	288	16.0	10/13/2022	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	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 82.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.9 % 46.3-178

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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:	10/11/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: EW 1 (H224783-08)

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	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	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	10/13/2022	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	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 54.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 60.4 % 46.3-178

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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:	10/11/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: EW 2 (H224783-09)

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	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	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	128	16.0	10/13/2022	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	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.4 % 46.3-178

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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:	10/11/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: EW 3 (H224783-10)

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	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	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	112	16.0	10/13/2022	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	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 83.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.8 % 46.3-178

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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



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October 19, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WELL SPRING PADUCA SWD BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 10/13/22 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:	10/13/2022	Sampling Date:	10/12/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: EW 4 (H224848-01)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	528	16.0	10/17/2022	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	10/18/2022	ND	246	123	200	5.53	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	209	104	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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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:	10/13/2022	Sampling Date:	10/12/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: WW 3 (H224848-02)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	10/17/2022	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	10/17/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/17/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/17/2022	ND					

Surrogate: 1-Chlorooctane 90.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.9 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/12/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: WW 4 (H224848-03)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	10/17/2022	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	10/17/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/17/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/17/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.3 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/12/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 5 @ 1 (H224848-04)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	288	16.0	10/17/2022	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	10/17/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/17/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/17/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.8 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/12/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 6 @ 1 (H224848-05)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	144	16.0	10/17/2022	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	10/17/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/17/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/17/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.0 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/12/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 7 @ 1 (H224848-06)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	320	16.0	10/17/2022	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	10/17/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/17/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/17/2022	ND					

Surrogate: 1-Chlorooctane 82.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.9 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/12/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 8 @ 1 (H224848-07)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	336	16.0	10/17/2022	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	10/17/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/17/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/17/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.8 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/12/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 9 @ 3 (H224848-08)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	96.0	16.0	10/17/2022	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	10/17/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/17/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/17/2022	ND					

Surrogate: 1-Chlorooctane 79.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.8 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/12/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 10 @ 3 (H224848-09)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	320	16.0	10/18/2022	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	10/17/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/17/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/17/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.3 % 46.3-178

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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:	10/13/2022	Sampling Date:	10/12/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 11 @ 2 (H224848-10)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	192	16.0	10/18/2022	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	10/17/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/17/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/17/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.8 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/13/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: EW 5 (H224848-11)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	288	16.0	10/18/2022	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	10/18/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.6 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/13/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 12 @ 3 (H224848-12)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	224	16.0	10/18/2022	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	10/18/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.9 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/13/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 13 @ 3 (H224848-13)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	608	16.0	10/18/2022	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	10/18/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/13/2022	Sampling Date:	10/13/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 14 @ 3 (H224848-14)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	560	16.0	10/18/2022	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	10/18/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/13/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 15 @ 3 (H224848-15)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	800	16.0	10/18/2022	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	10/18/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/13/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 16 @ 3 (H224848-16)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	464	16.0	10/18/2022	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	10/18/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/13/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 17 @ 3 (H224848-17)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	10/18/2022	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	10/18/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.8 % 46.3-178

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Analytical Results For:

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

Received:	10/13/2022	Sampling Date:	10/13/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 18 @ 3 (H224848-18)

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	10/18/2022	ND	1.98	99.0	2.00	8.43	
Toluene*	<0.050	0.050	10/18/2022	ND	1.96	98.1	2.00	7.98	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	1.94	97.1	2.00	8.46	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	5.93	98.8	6.00	8.59	
Total BTEX	<0.300	0.300	10/18/2022	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	1010	16.0	10/18/2022	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	10/18/2022	ND	231	116	200	2.11	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	219	110	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.2 % 46.3-178

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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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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: <i>Lane Erenshaw</i>		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>Max born</i>													
City: Hobbs State: NM Zip: 88240		Attn: <i>Connor Walker</i>													
Phone #: (575) 264-9884 Fax #:		Address: <i>9001 Burr Park Blvd</i>													
Project #: Project Owner: <i>Max born</i>		City: <i>Hobbs</i>													
Project Name: <i>Wellspring Paducah SWD Booster</i>		State: <i>NM</i> Zip:													
Project Location: <i>rural J21</i>		Phone #:													
Sampler Name: <i>Dominic Casarez</i>		Fax #:													

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER			
<i>H224848</i>														
<i>MC 1</i>	<i>EW4</i>											<i>10/12</i>		
<i>2</i>	<i>WW3</i>													
<i>3</i>	<i>WW4</i>													
<i>4</i>	<i>FL 501</i>													
<i>5</i>	<i>FL 601</i>													
<i>6</i>	<i>FL 701</i>													
<i>7</i>	<i>FL 801</i>													
<i>8</i>	<i>FL 903</i>													
<i>9</i>	<i>FL 1003</i>													
<i>10</i>	<i>FL 102</i>													

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Relinquished By: <i>[Signature]</i>	Date: <i>10/13</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: <i>1615</i>	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Date:	Sample Condition	REMARKS: email results	
Sampler - UPS - Bus - Other: <i>1.4c / 0.8c</i>	Time:	Cool Intact		
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		
		CHECKED BY: <i>J.O.</i>		

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



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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		P.O. #:		ANALYSIS REQUEST										
Project Manager: <i>Lane Crenshaw</i>		Company:		Chloride TPH (8015M) BTEX (8021B)										
Address: 2617 West Marland		Attn:												
City: Hobbs	State: NM	Zip: 88240	Address:											
Phone #: (575) 264-9884	Fax #:	City:	State:											
Project #:	Project Owner:	Zip:	Phone #:											
Project Name: <i>Well Spring Paduca SWS</i>	City:		Fax #:											
Project Location: <i>Purge Soil</i>	State:													
Sampler Name: <i>Romiril Cebarez</i>	Zip:													
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING								
Lab I.D.	Sample I.D.	(GRAB OR C/COMP)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE	TIME
<i>H224848</i>	<i>PC 11 EWS</i>												<i>10/13</i>	
	<i>12 FL 12 @ 3</i>													
	<i>13 FL 13 @ 3</i>													
	<i>14 FL 14 @ 3</i>													
	<i>15 FL 15 @ 3</i>													
	<i>16 FL 16 @ 3</i>													
	<i>17 FL 17 @ 3</i>													
	<i>18 FL 18 @ 3</i>													

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Relinquished By: <i>[Signature]</i>	Date: <i>10/13</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time: <i>16:15</i>	Sample Condition	REMARKS: <i>email results</i>	
Sampler - UPS - Bus - Other: <i>1,4c/0.8c</i>	Time:	<i>#13</i> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <i>VO</i>	

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

October 19, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WELL SPRING PADUCA SWD BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 10/14/22 14:51.

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:	10/14/2022	Sampling Date:	10/14/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 19 @ 4 (H224856-01)

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	10/18/2022	ND	2.05	102	2.00	0.553	
Toluene*	<0.050	0.050	10/18/2022	ND	2.17	108	2.00	0.214	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	2.02	101	2.00	0.0113	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	6.07	101	6.00	1.05	
Total BTEX	<0.300	0.300	10/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	1490	16.0	10/18/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2022	ND	210	105	200	2.92	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	215	108	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.1 % 46.3-178

Cardinal Laboratories

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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:	10/14/2022	Sampling Date:	10/14/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 20 @ 4 (H224856-02)

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	10/18/2022	ND	2.05	102	2.00	0.553	
Toluene*	<0.050	0.050	10/18/2022	ND	2.17	108	2.00	0.214	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	2.02	101	2.00	0.0113	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	6.07	101	6.00	1.05	
Total BTEX	<0.300	0.300	10/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	912	16.0	10/18/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2022	ND	210	105	200	2.92	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	215	108	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.1 % 46.3-178

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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:	10/14/2022	Sampling Date:	10/14/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 21 @ 4 (H224856-03)

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	10/18/2022	ND	2.05	102	2.00	0.553	
Toluene*	<0.050	0.050	10/18/2022	ND	2.17	108	2.00	0.214	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	2.02	101	2.00	0.0113	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	6.07	101	6.00	1.05	
Total BTEX	<0.300	0.300	10/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	10/18/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2022	ND	210	105	200	2.92	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	215	108	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.0 % 46.3-178

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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:	10/14/2022	Sampling Date:	10/14/2022
Reported:	10/19/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: WW 5 (H224856-04)

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	10/18/2022	ND	2.05	102	2.00	0.553	
Toluene*	<0.050	0.050	10/18/2022	ND	2.17	108	2.00	0.214	
Ethylbenzene*	<0.050	0.050	10/18/2022	ND	2.02	101	2.00	0.0113	
Total Xylenes*	<0.150	0.150	10/18/2022	ND	6.07	101	6.00	1.05	
Total BTEX	<0.300	0.300	10/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	352	16.0	10/18/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2022	ND	210	105	200	2.92	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	215	108	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 82.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.9 % 46.3-178

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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

Celey D. Keene, Lab Director/Quality Manager



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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: <i>Lane Crenshaw</i>		P.O. #:		Chloride	TPH (8015M)	BTEX (8021B)										
Address: 2617 West Marland		Company: <i>Mexborough</i>														
City: Hobbs State: NM Zip: 88240		Attn: <i>Conner Walker</i>														
Phone #: (575) 264-9884 Fax #:		Address: <i>4801 Bus Park Blvd</i>														
Project #: Project Owner: <i>Mexborough</i>		City: <i>Hobbs</i>														
Project Name: <i>Well Spring Paduca SWD Booster</i>		State: <i>NM</i> Zip:														
Project Location: <i>Rural Jal NM</i>		Phone #:														
Sampler Name: <i>Dominic Casarez</i>		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		
<i>H224856</i>													<i>10/14</i>	<i>2:51</i>		
<i>1 FL 19 @ 4</i>																
<i>2 FL 20 @ 4</i>																
<i>3 FL 21 @ 4</i>																
<i>4 WWS</i>																

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Relinquished By: <i>[Signature]</i>	Date: <i>10/14</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: <i>2:51</i>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <i>email results</i>	
	Time:			
Delivered By: (Circle One)	#1/3	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: <i>28.1c/27.5c</i>		Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>JO.</i>	

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



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

October 28, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WELL SPRING PADUCA SWD BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 10/20/22 16:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: EW 6 (H224951-01)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61		
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16		
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62		
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26		
Total BTEX	<0.150	0.150	10/27/2022	ND						

Surrogate: Dibromofluoromethane 97.7 % 83.7-114
 Surrogate: Toluene-d8 103 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 97.3 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/26/2022	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	226	113	200	4.68		
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	195	97.6	200	2.08		
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND						

Surrogate: 1-Chlorooctane 134 % 45.3-161
 Surrogate: 1-Chlorooctadecane 146 % 46.3-178

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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:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: WW 6 (H224951-02)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 97.3 % 83.7-114
 Surrogate: Toluene-d8 98.7 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 100 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 142 % 45.3-161
 Surrogate: 1-Chlorooctadecane 158 % 46.3-178

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: EW 7 (H224951-03)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 95.9 % 83.7-114
 Surrogate: Toluene-d8 97.6 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 99.4 % 50.9-150

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	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 118 % 45.3-161
 Surrogate: 1-Chlorooctadecane 131 % 46.3-178

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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:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: EW 8 (H224951-04)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 96.3 % 83.7-114
 Surrogate: Toluene-d8 99.2 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 99.2 % 50.9-150

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	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 114 % 45.3-161
 Surrogate: 1-Chlorooctadecane 126 % 46.3-178

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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:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: NW 2 (H224951-05)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 96.6 % 83.7-114
 Surrogate: Toluene-d8 98.8 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 99.0 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 118 % 45.3-161
 Surrogate: 1-Chlorooctadecane 132 % 46.3-178

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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:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: NW 3 (H224951-06)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 95.6 % 83.7-114
 Surrogate: Toluene-d8 99.1 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 100 % 50.9-150

Chloride, SM4500Cl-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	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	223	112	200	1.66	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	211	106	200	0.332	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161
 Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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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:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: SW 1 (H224951-07)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 98.0 % 83.7-114
 Surrogate: Toluene-d8 99.5 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 99.8 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	223	112	200	1.66	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	211	106	200	0.332	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 112 % 45.3-161
 Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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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:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 22 @ 4 (H224951-08)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/27/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/27/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/27/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/27/2022	ND	6.46	108	6.00	6.26	
Total BTEX	<0.150	0.150	10/27/2022	ND					

Surrogate: Dibromofluoromethane 96.8 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 97.6 % 50.9-150

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	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	223	112	200	1.66	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	211	106	200	0.332	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 94.1 % 45.3-161
 Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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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:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 23 @ 4 (H224951-09)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	2.06	103	2.00	5.61	
Toluene*	<0.025	0.025	10/28/2022	ND	2.13	106	2.00	6.16	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	2.08	104	2.00	6.62	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	6.46	108	6.00	6.26	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 101 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.9 % 50.9-150

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	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	223	112	200	1.66	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	211	106	200	0.332	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161
 Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Analytical Results For:

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

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 24 @ 4 (H224951-10)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 98.3 % 83.7-114
 Surrogate: Toluene-d8 99.1 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 99.5 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	223	112	200	1.66	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	211	106	200	0.332	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 98.9 % 45.3-161
 Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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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:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 13 (H224951-11)

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	10/26/2022	ND	400	100	400	7.69	

Sample ID: FL 15 (H224951-12)

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	10/26/2022	ND	400	100	400	7.69	

Sample ID: FL 18 (H224951-13)

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	10/26/2022	ND	400	100	400	7.69	

Sample ID: NW 1 B (H224951-14)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	223	112	200	1.66	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	211	106	200	0.332	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161
 Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 25 @ 4 (H224951-15)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 98.8 % 83.7-114
 Surrogate: Toluene-d8 98.3 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 99.1 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	223	112	200	1.66	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	211	106	200	0.332	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161
 Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 26 @ 4 (H224951-16)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 99.3 % 83.7-114
 Surrogate: Toluene-d8 99.5 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.7 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 45.3-161
 Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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Analytical Results For:

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

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 27 @ 4 (H224951-17)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 100 % 83.7-114
 Surrogate: Toluene-d8 102 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 95.6 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 45.3-161
 Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Analytical Results For:

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

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 28 @ 4 (H224951-18)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 102 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.7 % 50.9-150

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	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 45.3-161
 Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 29 @ 4 (H224951-19)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 103 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 97.7 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161
 Surrogate: 1-Chlorooctadecane 129 % 46.3-178

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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:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 30 @ 4 (H224951-20)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 101 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 97.7 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 45.3-161
 Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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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:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 31 @ 4 (H224951-21)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 97.0 % 83.7-114
 Surrogate: Toluene-d8 101 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.2 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 45.3-161
 Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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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:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 32 @ 4 (H224951-22)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 97.1 % 83.7-114
 Surrogate: Toluene-d8 102 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 96.4 % 50.9-150

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	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161
 Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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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:	10/20/2022	Sampling Date:	10/20/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 33 @ 4 (H224951-23)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 95.9 % 83.7-114
 Surrogate: Toluene-d8 98.2 % 95.3-107
 Surrogate: 4-Bromofluorobenzene 101 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/26/2022	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161
 Surrogate: 1-Chlorooctadecane 127 % 46.3-178

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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



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: Lance Crenshaw		P.O. #:		Chloride TPH (8015M) BTEX (8021B)										
Address: 2617 West Marland		Company: Mew Down												
City: Hobbs State: NM Zip: 88240		Attn: Cadden Walker												
Phone #: (575) 264-9884 Fax #:		Address: Wood bus park blvd												
Project #: 16824 Project Owner: Mew Down		City: Hobbs												
Project Name: Well Spring Padua SWD Booster		State: NM Zip:												
Project Location: Rural Lea Co		Phone #:												
Sampler Name: Domingo Casarez		Fax #:												
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
H224951													10 20	4:11
DC 1	EW6													
2	NW6													
3	EW7													
4	EW8													
5	NW2													
6	NW3													
7	SW1													
8	FL22 @4													
9	FL23 @4													
10	FL24 @4													

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Relinquished By: <i>[Signature]</i>	Date: 10 20	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 4:16 pm		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)	#113	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: 26.4c / 25.8c		Cool Intact	YD	
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

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



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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: Etch Environmental & Safety Solutions		BILL TO		ANALYSIS REQUEST																				
Project Manager: Lance Crenshaw		P.O. #:		Chloride TPH (8015M) BTEX (8021B)																				
Address: 2617 West Marland		Company: Mewbourn																						
City: Hobbs State: NM Zip: 88240		Attn: Connor Walker																						
Phone #: (575) 264-9884 Fax #:		Address: 4801 bus rd																						
Project #: 16824 Project Owner: Mewbourn		City: Hobbs																						
Project Name: WellSpring Pad via SWD Booster		State: NM Zip:																						
Project Location: Rural Lea co		Phone #:																						
Sampler Name: Dominic Casarez		Fax #:																						
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS)	MATRIX			PRESERV		SAMPLING		DATE	TIME												
	H224951			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	10 20	4 18										
	DC 11	FL 13				✓																		
	12	FL 15																						
	13	FL 18																						
	14	NV 1 B																						

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Relinquished By:	Date: 10 20	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 4 16		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results	
Delivered By: (Circle One)	Sample Condition:	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other: 26.4c / 25.8c	Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	YD		

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



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. #:		Chloride TPH (8015M) BTEX (8021B)												
Address: 2617 West Marland		Company: Mewbourn														
City: Hobbs State: NM Zip: 88240		Attn: Conner Walker														
Phone #: (575) 264-9884 Fax #:		Address: 4801 bus truck bldg														
Project #: 16829 Project Owner: Mawbourn		City: Hobbs														
Project Name: WellSpring Paduca SWD Booster		State: NM Zip:														
Project Location: Rural Lea Co.		Phone #:														
Sampler Name: Dominic Cabarez		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		
H224951	DC 15 FL25 @ 4												10 20	4 11		
	16 FL26 @ 4															
	17 FL27 @ 4															
	18 FL28 @ 4															
	19 FL29 @ 4															
	20 FL30 @ 4															
	21 FL31 @ 4															
	22 FL32 @ 4															
	23 FL33 @ 4															

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Relinquished By: <i>[Signature]</i>	Date: 10 20	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 4:16 pm		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results	
Delivered By: (Circle One)	Sampler - UPS - Bus - Other: 24.4°C / 25.8°C	#13 <i>[Signature]</i>	Sample Condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>YO.</i>

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



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

October 26, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WELL SPRING PADUCA SWD BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 10/24/22 16:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: EW 10 (H225002-01)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 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	10/26/2022	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	10/25/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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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:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 52 @ 2 (H225002-02)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.3 % 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	10/26/2022	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	10/25/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 46 @ 4 (H225002-03)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	1260	16.0	10/26/2022	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	10/25/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 49 @ 2 (H225002-04)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	10/26/2022	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	10/25/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: NW 4 (H225002-05)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	10/26/2022	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	10/25/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 48 @ 4 (H225002-06)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 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	1410	16.0	10/26/2022	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	10/25/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 47 @ 4 (H225002-07)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 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	1120	16.0	10/26/2022	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	10/25/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: SW 2 (H225002-08)

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	10/25/2022	ND	2.19	110	2.00	1.62		
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568		
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147		
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310		
Total BTEX	<0.300	0.300	10/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 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	10/26/2022	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	10/25/2022	ND	208	104	200	2.29		
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63		
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND						

Surrogate: 1-Chlorooctane 96.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: EW 9 (H225002-09)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	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	336	16.0	10/26/2022	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	10/25/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 46.3-178

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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:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 37 @ 4 (H225002-10)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 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	672	16.0	10/26/2022	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	10/25/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 41 @ 4 (H225002-11)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 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	544	16.0	10/26/2022	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	10/25/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 98.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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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:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 40 @ 4 (H225002-12)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	480	16.0	10/26/2022	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	10/25/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 38 @ 4 (H225002-13)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 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	704	16.0	10/26/2022	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	10/25/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.5 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: EW 11 (H225002-14)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	10/26/2022	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	10/25/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 42 @ 4 (H225002-15)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 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	912	16.0	10/26/2022	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	10/26/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 51 @ 2 (H225002-16)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 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	10/26/2022	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	10/26/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 34 @ 4 (H225002-17)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 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	672	16.0	10/26/2022	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	10/26/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 53 @ 2 (H225002-18)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	10/26/2022	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	10/26/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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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:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 43 @ 4 (H225002-19)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 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	672	16.0	10/26/2022	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	10/26/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 44 @ 4 (H225002-20)

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	10/25/2022	ND	2.19	110	2.00	1.62	
Toluene*	<0.050	0.050	10/25/2022	ND	2.10	105	2.00	0.568	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.06	103	2.00	0.147	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.15	103	6.00	0.310	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 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	672	16.0	10/26/2022	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	10/26/2022	ND	208	104	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	208	104	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.2 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: WW 7 (H225002-21)

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	10/25/2022	ND	2.19	109	2.00	0.863	
Toluene*	<0.050	0.050	10/25/2022	ND	2.11	106	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.05	103	2.00	0.739	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.16	103	6.00	0.170	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 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	304	16.0	10/26/2022	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	10/25/2022	ND	176	87.8	200	0.161	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	179	89.5	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 89.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.9 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 45 @ 4 (H225002-22)

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	10/25/2022	ND	2.19	109	2.00	0.863	
Toluene*	<0.050	0.050	10/25/2022	ND	2.11	106	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.05	103	2.00	0.739	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.16	103	6.00	0.170	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 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	32.0	16.0	10/26/2022	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	10/25/2022	ND	176	87.8	200	0.161	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	179	89.5	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.9 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 50 @ 4 (H225002-23)

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	10/25/2022	ND	2.19	109	2.00	0.863	
Toluene*	<0.050	0.050	10/25/2022	ND	2.11	106	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.05	103	2.00	0.739	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.16	103	6.00	0.170	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 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	10/26/2022	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	10/25/2022	ND	176	87.8	200	0.161	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	179	89.5	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.8 % 46.3-178

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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:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 39 @ 4 (H225002-24)

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	10/25/2022	ND	2.19	109	2.00	0.863	
Toluene*	<0.050	0.050	10/25/2022	ND	2.11	106	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/25/2022	ND	2.05	103	2.00	0.739	
Total Xylenes*	<0.150	0.150	10/25/2022	ND	6.16	103	6.00	0.170	
Total BTEX	<0.300	0.300	10/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 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	176	16.0	10/26/2022	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	10/25/2022	ND	176	87.8	200	0.161	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	179	89.5	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.7 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 36 @ 4 (H225002-25)

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	10/26/2022	ND	2.19	109	2.00	0.863	
Toluene*	<0.050	0.050	10/26/2022	ND	2.11	106	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.05	103	2.00	0.739	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	0.170	
Total BTEX	<0.300	0.300	10/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 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	736	16.0	10/26/2022	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	10/25/2022	ND	176	87.8	200	0.161	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	179	89.5	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 73.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.9 % 46.3-178

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Analytical Results For:

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

Received:	10/24/2022	Sampling Date:	10/24/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 35 @ 4 (H225002-26)

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	10/26/2022	ND	2.19	109	2.00	0.863	
Toluene*	<0.050	0.050	10/26/2022	ND	2.11	106	2.00	0.471	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.05	103	2.00	0.739	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	0.170	
Total BTEX	<0.300	0.300	10/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	368	16.0	10/26/2022	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	10/25/2022	ND	176	87.8	200	0.161	
DRO >C10-C28*	<10.0	10.0	10/25/2022	ND	179	89.5	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	10/25/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.0 % 46.3-178

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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

Celey D. Keene, Lab Director/Quality Manager



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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: Etch Environmental & Safety Solutions		BILL TO		ANALYSIS REQUEST																																																																																																																																																																																								
Project Manager: <i>Laucareshaw</i>		P.O. #:		Chloride TPH (8015M) BTEX (8021B)																																																																																																																																																																																								
Address: 2617 West Marland		Company: <i>Middora</i>																																																																																																																																																																																										
City: Hobbs State: NM Zip: 88240		Attn: <i>Janet Walker</i>																																																																																																																																																																																										
Phone #: (575) 264-9884 Fax #:		Address: <i>4901 Bus Park Blvd</i>																																																																																																																																																																																										
Project #: <i>16824</i> Project Owner: <i>Newbourn</i>		City: <i>Hobbs</i>																																																																																																																																																																																										
Project Name: <i>Well Spring Paduca SWD Booster</i>		State: <i>NM</i> Zip:																																																																																																																																																																																										
Project Location: <i>Rural Jal</i>		Phone #:																																																																																																																																																																																										
Sampler Name: <i>Dominic Casarez</i>		Fax #:																																																																																																																																																																																										
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<table border="1"> <thead> <tr> <th rowspan="2">Lab I.D.</th> <th rowspan="2">Sample I.D.</th> <th rowspan="2">(GRAB OR C/COMP. # CONTAINERS)</th> <th colspan="5">MATRIX</th> <th colspan="3">PRESERV</th> <th colspan="2">SAMPLING</th> <th rowspan="2">DATE</th> <th rowspan="2">TIME</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>SLUDGE</th> <th>OTHER</th> <th>ACID/BASE</th> <th>ICE / COOL</th> <th>OTHER</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td><i>DC</i></td> <td><i>1 EW10</i></td> <td></td> <td><i>10 24</i></td> <td></td> <td></td> </tr> <tr> <td></td> <td><i>2 FL52@2</i></td> <td></td> </tr> <tr> <td></td> <td><i>3 FL41@4</i></td> <td></td> </tr> <tr> <td></td> <td><i>4 FL49@2</i></td> <td></td> </tr> <tr> <td></td> <td><i>5 NW4</i></td> <td></td> </tr> <tr> <td></td> <td><i>6 FL48@4</i></td> <td></td> </tr> <tr> <td></td> <td><i>7 FL47@4</i></td> <td></td> </tr> <tr> <td></td> <td><i>8 SW2</i></td> <td></td> </tr> <tr> <td></td> <td><i>9 EW3</i></td> <td></td> </tr> <tr> <td></td> <td><i>10 FL37@4</i></td> <td></td> </tr> </tbody> </table>												Lab I.D.	Sample I.D.	(GRAB OR C/COMP. # CONTAINERS)	MATRIX					PRESERV			SAMPLING		DATE	TIME	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER			<i>DC</i>	<i>1 EW10</i>											<i>10 24</i>				<i>2 FL52@2</i>															<i>3 FL41@4</i>															<i>4 FL49@2</i>															<i>5 NW4</i>															<i>6 FL48@4</i>															<i>7 FL47@4</i>															<i>8 SW2</i>															<i>9 EW3</i>															<i>10 FL37@4</i>															
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Relinquished By: <i>[Signature]</i>	Date: <i>10 24</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: <i>1648</i>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <i>email results</i>	
	Time:		<i>Bush!</i>	
Delivered By: (Circle One)	#113	Sample Condition	<i>added 10/25@1055pm</i>	
Sampler - UPS - Bus - Other: <i>19.4c/18.8c</i>		Cool Intact	<i>SO.</i>	
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		CHECKED BY: <i>TO</i>		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions		BILL TO		ANALYSIS REQUEST											
Project Manager: LANCE CRASHAW		P.O. #:		Chloride TPH (8015M) BTEX (8021B)											
Address: 2617 West Marland		Company: Mewbourn													
City: Hobbs State: NM Zip: 88240		Attn: Conner Walker													
Phone #: (575) 264-9884 Fax #:		Address: 9th Park Blvd													
Project #: 16824 Project Owner: Mewbourn		City: Hobbs													
Project Name: Wellsprings Padua SWD Booster		State: NM Zip:													
Project Location: Rural Jct		Phone #:													
Sampler Name: Dominic Casarez		Fax #:													
FOR LAB USE ONLY	Sample I.D.	CONTAINER	MATRIX	PRESERV	SAMPLING	DATE	TIME								
H225002															
DC	FLUS					10/24								Duplicate	
21	WW7													Duplicate	TO-10/25/22
22	FL44 @ 4														
23	FL45 @ 4														
24	FL51 @ 2														
25	FL39 @ 4														
26	EL36 @ 4														
	FL35 @ 4														

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Relinquished By:	Date: 10/24	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 16:48	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Temp: 19.4°C / 18.8°C	Sample Condition	REMARKS: email results	
Sampler - UPS Bus Other	#113	COOL INTACT		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		CHECKED BY: TO-		

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

October 26, 2022

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WELL SPRING PADUCA SWD BOOSTER

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

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:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 54 @ 2 (H225024-01)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	368	16.0	10/26/2022	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	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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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:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 55 @ 2 (H225024-02)

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	10/26/2022	ND	2.27	113	2.00	4.69		
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50		
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76		
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86		
Total BTEX	<0.300	0.300	10/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 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	10/26/2022	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	10/26/2022	ND	231	116	200	0.223		
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202		
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND						

Surrogate: 1-Chlorooctane 89.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 56 @ 2 (H225024-03)

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	10/26/2022	ND	2.27	113	2.00	4.69		
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50		
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76		
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86		
Total BTEX	<0.300	0.300	10/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 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	16.0	16.0	10/26/2022	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	10/26/2022	ND	231	116	200	0.223		
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202		
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND						

Surrogate: 1-Chlorooctane 88.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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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:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 57 @ 2 (H225024-04)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	10/26/2022	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	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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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:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 58 @ 2 (H225024-05)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 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	10/26/2022	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	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Analytical Results For:

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

Received:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 59 @ 2 (H225024-06)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 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	10/26/2022	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	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 94.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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Analytical Results For:

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

Received:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 60 @ 2 (H225024-07)

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	10/26/2022	ND	2.27	113	2.00	4.69		
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50		
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76		
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86		
Total BTEX	<0.300	0.300	10/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 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	10/26/2022	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	10/26/2022	ND	231	116	200	0.223		
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202		
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND						

Surrogate: 1-Chlorooctane 85.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Analytical Results For:

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

Received:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 61 @ 2 (H225024-08)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 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	10/26/2022	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	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 82.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Analytical Results For:

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

Received:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 62 @ 2 (H225024-09)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	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	416	16.0	10/26/2022	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	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 71.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.4 % 46.3-178

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Analytical Results For:

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 HOBBS NM, 88240
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Received:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 63 @ 2 (H225024-10)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	10/26/2022	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	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 89.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Analytical Results For:

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

Received:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: FL 64 @ 2 (H225024-11)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 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	10/26/2022	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	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 78.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.0 % 46.3-178

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Analytical Results For:

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

Received:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: EW 12 (H225024-12)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	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	480	16.0	10/26/2022	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	10/26/2022	ND	231	116	200	0.223	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	234	117	200	0.202	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 78.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.1 % 46.3-178

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Analytical Results For:

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 Fax To:

Received:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: EW 13 (H225024-13)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	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	32.0	16.0	10/26/2022	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	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.0 % 46.3-178

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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:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: SW 3 (H225024-14)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 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	10/26/2022	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	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.5 % 46.3-178

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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:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: WW 8 (H225024-15)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	10/26/2022	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	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 78.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.7 % 46.3-178

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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:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: WW 9 (H225024-16)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 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	10/26/2022	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	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.7 % 46.3-178

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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:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: WW 10 (H225024-17)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 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	10/26/2022	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	10/26/2022	ND	207	103	200	9.75	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	177	88.7	200	17.7	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Analytical Results For:

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

Received:	10/25/2022	Sampling Date:	10/25/2022
Reported:	10/26/2022	Sampling Type:	Soil
Project Name:	WELL SPRING PADUCA SWD BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	16824	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL JAL		

Sample ID: WW 11 (H225024-18)

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	10/26/2022	ND	2.27	113	2.00	4.69	
Toluene*	<0.050	0.050	10/26/2022	ND	2.12	106	2.00	3.50	
Ethylbenzene*	<0.050	0.050	10/26/2022	ND	2.07	103	2.00	2.76	
Total Xylenes*	<0.150	0.150	10/26/2022	ND	6.16	103	6.00	2.86	
Total BTEX	<0.300	0.300	10/26/2022	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	352	16.0	10/26/2022	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	10/26/2022	ND	207	103	200	9.75	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	177	88.7	200	17.7	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 71.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.5 % 46.3-178

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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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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. #:				Chloride TPH (8015M) BTEX (8021B)																			
Address: 2617 West Marland				Company: Mewbourn																							
City: Hobbs		State: NM		Zip: 88240		Attn: Conner Walker																					
Phone #: (575) 264-9884		Fax #:		Address: 4001 2nd Park Blvd																							
Project #: 16824		Project Owner: Mewbourn		City: Hobbs																							
Project Name: Well Springs Paduca SWB Booster				State: NM														Zip:									
Project Location: Rural JIL				Phone #:																							
Sampler Name: Dominic Casarez				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS												GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER	
H225024		DC 11 FL64@2																						10 25			
12		EW12																									
13		EW13																									
14		SW3																									
15		WW8																									
16		WW9																									
17		WW10																									
18		WW11																									

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Relinquished By:	Date: 10 25	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 4:30 pm		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results	
Delivered By: (Circle One)	#113	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: 24.6°C / 24.0°C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	T.O.	

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

Appendix E

Regulatory Correspondence

From: [Lance Crenshaw](#)
To: [Ben Arguijo](#)
Subject: FW: [EXTERNAL] Excavation Confirmation Sampling notification
Date: Thursday, October 13, 2022 12:39:54 PM

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Thursday, October 13, 2022 11:38 AM
To: Lance Crenshaw <lance@etechenv.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Excavation Confirmation Sampling notification

Lance

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, October 13, 2022 11:35 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: Fw: [EXTERNAL] Excavation Confirmation Sampling notification

From: Lance Crenshaw <lance@etechenv.com>
Sent: Thursday, October 13, 2022 11:29 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Ben Arguijo <bena@etechenv.com>; Connor Walker <cwalker@mewbourne.com>
Subject: [EXTERNAL] Excavation Confirmation Sampling notification

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

This email serves as notice that Etech intends to collect excavation confirmation soil samples on October 14 through October 21 from the following locations/reportable release sites:

Mewbourne Oil Co – Wellspring Paduca SWD Booster- nAPP2225255046

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

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

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

QUESTIONS

Action 365742

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 365742
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2225255046
Incident Name	NAPP2225255046 WELLSRING PADUCA SWD BOOSTER @ 30-025-43277
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-43277] PADUCA 6 SWD #001

Location of Release Source

Please answer all the questions in this group.

Site Name	WELLSRING PADUCA SWD BOOSTER
Date Release Discovered	08/29/2022
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 251 BBL Recovered: 0 BBL Lost: 251 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 365742

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	365742
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 07/19/2024
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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 365742
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	1520
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	133
GRO+DRO (EPA SW-846 Method 8015M)	133
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/11/2022
On what date will (or did) the final sampling or liner inspection occur	10/14/2022
On what date will (or was) the remediation complete(d)	10/25/2022
What is the estimated surface area (in square feet) that will be reclaimed	12800
What is the estimated volume (in cubic yards) that will be reclaimed	1300
What is the estimated surface area (in square feet) that will be remediated	12800
What is the estimated volume (in cubic yards) that will be remediated	1300

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 365742

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 365742
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360 Red Bluff
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 07/19/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 365742

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 365742
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 365742

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 365742
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	365750
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/14/2022
What was the (estimated) number of samples that were to be gathered	95
What was the sampling surface area in square feet	12800

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	12800
What was the total volume (cubic yards) remediated	1300
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	12800
What was the total volume (in cubic yards) reclaimed	1300
Summarize any additional remediation activities not included by answers (above)	Please see attached closure report for complete remediation activities.

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 07/19/2024
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QUESTIONS, Page 7

Action 365742

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 365742
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS
 Action 365742

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 365742
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	8/1/2024