**Received by OCD: 9/28/2023 10:13:57 AM** Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID	nAPP2316042324
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?	<u>&gt;107</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🖌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🖌 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🖌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🖌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🖌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🖌 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🖌 Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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

Page 3

- Data table of soil contaminant concentration data
- $\checkmark$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-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.

eceived by OCD: 9/28/2	2023 10:13:57 AM State of New Mexico			Page 2
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age 4	Oil Conservation Division	1	District RP	
			Facility ID	
			Application ID	
public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: <u>Connol</u>	Avalh	e OCD does not relieve th hreat to groundwater, surf of responsibility for com 	ne operator of liability sho face water, human health pliance with any other feo Pr	ould their operations have or the environment. In
OCD Only Received by:		Date:		

Oil Conservation Division

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# Closure

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

Closure Report 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: \_\_\_\_\_ Date: \_\_\_\_\_\_ Telephone: (806)202-5281 email: cwalker@mewbourne.com **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 Santo Nino SWD Riser

Eddy County, New Mexico Unit Letter "E", Section 29, Township 18 South, Range 30 East Latitude 32.7197124° North, Longitude 104.0013009° West NMOCD Reference No. nAPP2316042324

Prepared By:

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

n J. Arguijo

Lance Crenshaw

Environmental & Safety Solutions, Inc.

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 Santo Nino SWD Riser. Details of the release are summarized below:

	Locatio	on of Release Sou							
atitude:	32.7197124°	Longitude:	-104.0013009°						
	Provid	ed GPS are in WGS84 format							
Site Name: Santo Nino SWD Riser Site Type: Pipeline									
Date Release Discovered: 5/31/2023 API # (if applicable): N/A									
Unit Letter Sec	Section Township Range County								
	9 18S	30E	Eddy						
Surface Owner: State X Federal Tribal Private (Name									
	Nature a	nd Volume of R	elease						
Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)						
X Produced Water	Volume Released (bbls)	44	Volume Recovered (bbls)	15					
Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?									
Condensate	Volume Released (bbls)		Volume Recovered (bbls)						
Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)						
Other (describe)	Volume/Weight Released		Volume/Weight Recovered						
Cause of Release: A weld on a poly SWI	) line came apart.		I						
	I	nitial Response							
X The source of the re	elease has been stopped.								
X The impacted area	has been secured to protect hu	uman health and the env	vironment.						
X Release materials h	ave been contained via the us	e of berms or dikes, ab	sorbent pad, or other containment of	levices					
	recoverable materials have be	een removed and mana	ged appropriately						

# 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Santo Nino SWD Riser release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	>1	07'
Did the release impact groundwater or surface water?	Yes	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	Yes	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	X Yes	No

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

# 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Santo Nino SWD Riser release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
>107'	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

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

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

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

# 4.0 **REMEDIATION ACTIVITIES SUMMARY**

On July 26, 2023, remediation activities commenced at the Santo Nino SWD Riser 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 chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The sidewalls and floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On July 26, 2023, Etech collected seven (7) confirmation soil samples (NW 1, NW 2, SW 1, SW 2, FL 1 @ 2', FL 2 @ 2', and FL 5 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also less than the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 32.0 mg/kg in soil sample SW 1 to 352 mg/kg in soil sample FL 5 @ 2'.

On July 27, 2023, Etech collected 25 confirmation soil samples (NW 3 through NW 6, EW 1, SW 1, SW 3 through SW 7, WW 1, WW 2, FL 1 @ 2', FL 3 @ 3', FL 4 @ 3', and FL 6 @ 3' through FL 14 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 32.0 mg/kg in soil sample NW 3 to 7,680 mg/kg in soil sample FL 13 @ 4'. The chloride concentration in soil sample NW 6 exceeded the NMOCD Reclamation Standard.

Pursuant to NMOCD regulations, a work plan or closure report was due for the release by August 31, 2023. On August 1, 2023, Etech submitted an extension request to the NMOCD asking for additional time to fully excavate the site, gather confirmation soil samples, backfill the excavation, and prepare a site closure request. The NMOCD subsequently granted an extension until September 29, 2023, with no added stipulations.

On August 7, 2023, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample NW 6. Etech collected one (1) confirmation soil sample (NW 6C) from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was 32.0 mg/kg and below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

The final dimensions of the excavated area were approximately 294 feet in length, five (5) to 30 feet in width, and two (2) to four (4) feet in depth. During the course of remediation activities, Etech transported approximately 640 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 636 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

## 5.0 **RESTORATION, RECLAMATION & RE-VEGETATION PLAN**

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

## 6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and/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 Santo Nino SWD Riser 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 2 811 S. First Street Artesia, NM 88210* 

## United States Department of the Interior

Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220

(Electronic Submission)

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# Figure 1 Topographic Map



# Figure 2 Site Characterization Map



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# Figure 3 Site & Sample Location Map

Received by OCD: 9/28/2023 10:13:57 AM



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

Table 1											
Concentrations of BTEX, TPH & Chloride in Soil											
	Mewbourne Oil Company										
	Santo Nino SWD Riser										
	NMOCD Ref. #: nAPP2316042324										
	MOCD Closu			10	50	N/A	N/A	1,000	N/A	2,500	20,000
NM	OCD Reclama	tion Stand	lard	10	50	N/A	N/A	N/A	N/A	100	600
				SW 84	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
NW 1	7/26/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW 2	7/26/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 3	7/27/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 4	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
NW 5	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW 6	7/27/2023	0-4	Excavated	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	720
NW 6C	8/7/2023	0-4	In-Situ	-	-	-	-	-	-	-	32.0
EW 1	7/27/2023	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 1	7/26/2023	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 1*	7/27/2023	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 2	7/26/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 3	7/27/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 4	7/27/2023	0-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW 5	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
SW 6	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
SW 7	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 1	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
WW 2	7/27/2023	0-4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 1 @ 2'	7/26/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 1 @ 2'*	7/27/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 2 @ 2'	7/26/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 3 @ 3'	7/27/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 4 @ 3'	7/27/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 5 @ 2'	7/26/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 6 @ 3'	7/27/2023	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 7 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,580
FL 8 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
FL 9 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FL 10 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,120
FL 11 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	976
FL 12 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,150
FL 13 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,680
FL 14 @ 4'	7/27/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,680

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# Appendix A Depth to Groundwater Information

## Received by OCD: 9/28/2023 10:13257/AM



CLIENT Mewbourne Oil Co.

PROJECT NAME Santo Nino 29 SWD FED #1

## SOIL BORE LOG SB-07

DRILLING DATE 12/01/2022

TOTAL DEPTH 107'

Note: Drilling log extracted from the "Closure Request", dated January 18, 2023, for NMOCD Incident ID #nAPP2220137198.

COORDINATES 32.720377, -103.992512 COORD SYS NAD 83 ULSTR G-29-18S-30E SURFACE ELEVATION 3455

COMMENTS Spud on the West Side of the Santo Nino 29 SWD FED #1 Well Pad. Bore Hole was LOGGED BY CJ observed to be dry after 72 hrs. CHECKED BY DD Depth (ft) Moisture **Material Description** Elevation (ft) D Reddish Yellow Sandy Clay Loam. Dry Yellowish Red Sandy Loam. Dry 5 3450 10 3445 15 3440 Light Red Sandy Clay Loam. Dry Yellowish Red Sandy Loam. Dry 20 3435 Red Sandy Clay. Dry 25 3430 Yellowish Red Sandy Clay Loam. Dry 30 3425 Yellowish Red Sandy Clay. 35 3420 40 3415 3410 45 Yellowish Red Sandy Loam. Dry 50 3405 3400 55 60 3395 Reddish Brown Sandy Clay. Dry 65 3390 Yellowish Red Sandy Loam. Dry 70 3385 3380 75 3375 80 85 3370 Reddish Brown Sandy Clay. Dry 90 3365 Yellowish Red Sandy Clay Loam. Dry 95 3360 100 3355 105 3350 Termination Depth at:107 ft. 110 3345

Disclaimer This bore log is intended to evidence a depth to groundwater greater than 107'. *Released to Imaging: 2/14/2024 1: 52:15 LIPM* 22





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.

7/27/23 1:37 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER







Click forNews Bulletins

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

#### Search Results -- 1 sites found

Agency code = usgs site\_no list = • 324154103593301

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 324154103593301 18S.30E.32.32422

Eddy County, New Mexico Latitude 32°41'54", Longitude 103°59'33" NAD27 Land-surface elevation 3,374 feet above NAVD88 This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1968-03-08		D	72019	164.45			1	Z			А
1971-04-08		D	72019	161.28			1	Z			А

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

Questions or Comments Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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#### Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 324333103580001

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 324333103580001 18S.30E.21.4200

Eddy County, New Mexico Latitude 32°43'33", Longitude 103°58'00" NAD27 Land-surface elevation 3,461 feet above NAVD88 This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Chinle Formation (231CHNL) 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	? \$tatus	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1965-12-09		D	72019	266.48			1	Z			А

#### *Received by OCD: 9/28/2023 10:13:57 AM*

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	А	Approved for publication Processing and review completed.							

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#### Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 324402104014701

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 324402104014701 18S.29E.24.14413

Eddy County, New Mexico Latitude 32°44'01.5", Longitude 104°01'48.9" NAD83 Land-surface elevation 3,441 feet above NAVD88 The depth of the well is 202.00 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

#### **Output formats**

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	
1994-03-30		D	72019	159.96				S				A
2015-12-16	17:30 UTC	m	72019	168.63			1	S	USGS	S		А

## Released to Imaging: 2/14/2024 1:52:51 PM

Explanation								
Code \$	Description							
D	Date is accurate to the Day							
m	Date is accurate to the Minute							
62610	Groundwater level above NGVD 1929, feet							
62611	Groundwater level above NAVD 1988, feet							
72019	Depth to water level, feet below land surface							
NAVD88	North American Vertical Datum of 1988							
NGVD29	National Geodetic Vertical Datum of 1929							
	The reported water-level measurement represents a static level							
1	Static							
S	Steel-tape measurement.							
	Not determined							
USGS	U.S. Geological Survey							
	Not determined							
S	Measured by personnel of reporting agency.							
А	Approved for publication Processing and review completed.							
	<ul> <li>D</li> <li>m</li> <li>62610</li> <li>62611</li> <li>72019</li> <li>NAVD88</li> <li>NGVD29</li> <li>1</li> <li>S</li> <li>USGS</li> <li>S</li> </ul>							

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Important: <u>Next Generation Monitoring Location Page</u>

#### Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 324403104013301

#### **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

### USGS 324403104013301 18S.29E.24.23314

Eddy County, New Mexico Latitude 32°44'03", Longitude 104°01'33" NAD27 Land-surface elevation 3,446 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	
<u>Graph of data</u>	
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
1950-04-28		D	72019	158.32			Р	Z			А

Page	<i>31</i>	of	96
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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	Р	Pumping							
Method of measurement	Z	Other.							
Measuring agency		Not determined							
Source of measurement		Not determined							
Water-level approval status	А	Approved for publication Processing and review completed.							

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#### Search Results -- 1 sites found

Agency code = usgs

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 324403104013601 18S.29E.24.23313

Eddy County, New Mexico

Latitude 32°44'03", Longitude 104°01'36" NAD27 Land-surface elevation 3,443 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	
<u>Graph of data</u>	
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
1965-12-20	·	D	72019	147.54	L]		Р	Z			A
1968-03-08		D	72019	160.70			P	Z			А
1971-04-08		D	72019	160.20			Р	Z			А
1976-05-28		D	72019	145.98			1	Z			А
1983-04-12		D	72019	155.85			1	Z			А
1986-06-03		D	72019	162.09			1	S			А

## Released to Imaging: 2/14/2024 1:52:51 PM

#### Received by OCD: 9/28/2023 10:13:57 AM

Date 🗘 1	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 the source of the	? Water- level approval status
1990-09-19		D	72019	153.24			1	S			А
1994-03-11		D	72019	174.41			1	S			А
1994-03-30		D	72019	150.16			1	S			А

#### Explanation

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

<u>Questions or Comments</u> <u>Automated retrievals</u> <u>Help</u> Data Tips Explanation of terms Subscribe for system changes <u>News</u>

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# Appendix B Field Data

Received by OCD: 9/28/2023 10:13:5	57 AM	-	21		6			Page 35 of
etech		L.	S	ample L	og		1_	21
Environmental & Safety Solutions, Inc.	1				Date:		2-	\$V '
Project: Santo Nino SWD Rise	er				Date.			
	18296	Latitude:	32.7	197124	Longitude		-104.00130	009
		-	1.77			telab.		
Sample ID	PID/Odor			ide Conc.			GPS	
FLI CIQZ'	-	4,0	604	192				
NWIA	-	4.0	604	576				
SWIG	-	42	2124					-
FLICZ	-	2.4	248			<b>!</b>		-
Fizer	~	1,8	152			•		-
NWI	-	2.2	216			1.		-
5W1	~	1.0 -	<124	171		· ·		-
FLY C2' @3'		9.0	776 1	111Z				
FL9 E 1 @/> FL5 e 2'	~	4.6	500	7112	~			
NW2	-	0.8	6/24					
SW2	-	1,8	-152		-		*	
FL6@3		19	112		-			
FL-7Q4	-	8.0	251	2				
ELSQY'	- · ·	5.8	TIYE					
EL-9Q41		64	1411					
5 W 4	-	7.4	112			1		
SW3		1,6 1	136			-		
NW3	$\sim$	1.11	12					
Carron NWY	~	3.0	356					
FU 10 Q 4			796	and the				
FLIL QY'	/	6.0	123	2				
FL 1204	~	41	44					
FL 1304	<u> </u>	913	32	1.				
SW5 B	~	3.6	480					
NW.5-	-	3,0	356					
546		1251	76			_		
NWG	_	2.6	480	7.7	112			
WW Z	-	aller a	1.8	167				
5107		4400	1.6	134				
EWI	-	Contraction of the second	1.7	12			_	
FL TTEN			0.01	232				
Sampla Doint - SD #1 @ ## atc			Tort Terre	а- <b>П#1</b> @ ##				CM / #41
Sample Point = SP #1 @ ## etc Floor = FL #1 etc				n = TT #1 @ ##			iples= SP #1 @ 5	
Sidewall = SW #1 etc			ended to be De	SP #1 @ 4'-R			tockpile = Stock le Points, Center	

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# Appendix C Photographic Log












# Photographic Log





# Photographic Log











# **Appendix D Laboratory Analytical Reports**



August 02, 2023

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

RE: SANTO NINO SWD RISER

Enclosed are the results of analyses for samples received by the laboratory on 07/27/23 8:02.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

## Sample ID: FL 1 @ 2' (H233934-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	112	16.0	07/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	202	101	200	3.43	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	203	102	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	0						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

## Sample ID: FL 2 @ 2' (H233934-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	202	101	200	3.43	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	203	102	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

## Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

#### Sample ID: FL 5 @ 2' (H233934-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2023	ND	197	98.3	200	0.670	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	223	112	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					
Surrogate: 1-Chlorooctane	130 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	143 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

## Sample ID: NW 1 (H233934-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2023	ND	197	98.3	200	0.670	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	223	112	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					
Surrogate: 1-Chlorooctane	123 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	137 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

## Sample ID: NW 2 (H233934-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2023	ND	197	98.3	200	0.670	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	223	112	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					
Surrogate: 1-Chlorooctane	126 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140 \$	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

## Sample ID: SW 1 (H233934-06)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	197	98.3	200	0.670	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	121 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	134 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - EDDY CO NM		

## Sample ID: SW 2 (H233934-07)

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	197	98.3	200	0.670	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					
Surrogate: 1-Chlorooctane	128 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	142 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

54 of 96

101 East Marland, Hobbs, NM 88240

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

Company Name		tal & Safety Solu	tions	, Inc	C.			1410					ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw					Ρ.	0. #:		-				
Address: 261	7 West Marland			_		C	Company Etech						
City: Hobbs State: NM Zip: 88240						At	tn:	Lance Cren	shaw	1 1			
Phone #: (575) 264-9884 Fax #:						Ac	idress:						
Project #: 182	96	Project Owne	HT:	Me	ewbourne	Ci	ty:				-		
Project Name:	Santo Nino SWD Riser	r				St	ate: NM	Zip:	1	0	TPH (8015M)	BTEX (8021B)	
Project Location	n: Rural Eddy County	, NM		_			none #:		1	<b>Shloride</b>	801	(80)	
Sampler Name:	Matthew Grieco		-				EX #:			Ĭ.	H	X	
FOR LAB USE ONLY					MATRIX		PRESERV	SAMPL	ING	1	]₽	BT	
Lab I.D. <u>H233934</u>	Sample I	.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME		٠		
	FL1 @ 2'		C	1	X		X	7/26/23		X	X	X	
	FL2 @ 2'		С	1	<b>X</b> ,		X	7/26/23		X	X	X	
3	FL5 @ 2'		C	1	X		X	7/26/23		X	X	X	
4	NW1		C	1	X .		X	7/26/23		X	X	X	
S	NW2		C	1	X		X	7/26/23		X	X	X	
6	SW1		С	1	X		X	7/26/23		X	X	X	
1	SW2		C	1	X	-	X	7/26/23		X	X	X	
				-						1	-		
				-		-+				-	-		
nalyses. All claims include arvice. In an event shall C	Ino	Course values over that the or any deal because the for 27-27-23 Time: 802 Date:	Re	ceiv	ed unions matio in uniting alters, busineen interruptio	and rect	deed by Cardinal v fune, or loss of p	albin 30 days office ralls incorred by -	er completion of the	he applica ries, se. sult: lt:			No Add'i Phone #: No Add'i Fax #:
	: (Circle One) - Bus - Other:	8, 8 °	#14	ω	Sample Con Cool Intac Yes I	1		(ED BY:	Please e	email r	esults	and o	copy of CoC to pm@etechenv.com.



August 07, 2023

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

RE: SANTO NINO SWD RISER

Enclosed are the results of analyses for samples received by the laboratory on 07/28/23 10:40.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

## Sample ID: SW 1 (H233983-01)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/03/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

## Sample ID: SW 3 (H233983-02)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/03/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

## Sample ID: SW 4 (H233983-03)

BTEX 8021B	mg/kg		Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/03/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	87.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

## Sample ID: SW 5 (H233983-04)

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/03/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	<b>99</b> .7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

## Sample ID: SW 6 (H233983-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/03/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

#### Sample ID: FL 12 @ 4' (H233983-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	08/03/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

#### Sample ID: FL 11 @ 4' (H233983-07)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	08/03/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	103 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

#### Sample ID: WW 1 (H233983-08)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/03/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	98.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

#### Sample ID: FL 3 @ 3' (H233983-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	4.90	
Toluene*	<0.050	0.050	08/05/2023	ND	1.80	90.1	2.00	4.61	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.85	92.7	2.00	5.35	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.47	91.2	6.00	5.54	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/03/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	194	97.2	200	3.58	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	198	98.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

## Sample ID: NW 3 (H233983-10)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/04/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/03/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

#### Sample ID: FL 13 @ 4' (H233983-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7680	16.0	08/03/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

#### Sample ID: FL 8 @ 4' (H233983-12)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	08/03/2023	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND					
Surrogate: 1-Chlorooctane	93.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

## Sample ID: NW 4 (H233983-13)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/03/2023	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

#### Sample ID: FL 4 @ 3' (H233983-14)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/03/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/02/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/02/2023	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

#### Sample ID: FL 6 @ 3' (H233983-15)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/03/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

#### Sample ID: FL 1 @ 2' (H233983-16)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/03/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	97.5 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane	111 9	49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

#### Sample ID: FL 10 @ 4' (H233983-17)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	08/03/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	93.0 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


# Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

# Sample ID: NW 5 (H233983-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/03/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	92.0 % 48.2-134		4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

## Sample ID: FL 7 @ 4' (H233983-19)

BTEX 8021B		′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	08/03/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	84.5 % 48.2-134		4						
Surrogate: 1-Chlorooctadecane	<i>96.3 % 49.1-148</i>		8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

# Sample ID: NW 6 (H233983-20)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/03/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	91.1% 48.2-134		4						
Surrogate: 1-Chlorooctadecane	<i>103 % 49.1-148</i>		8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

## Sample ID: FL 9 @ 4' (H233983-21)

BTEX 8021B mg/kg		Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	2.11	106	2.00	3.23	
Toluene*	<0.050	0.050	08/05/2023	ND	2.04	102	2.00	4.12	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.96	98.1	2.00	4.00	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.88	98.0	6.00	4.61	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	08/03/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	187	93.4	200	7.74	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	194	96.9	200	7.45	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	86.9 % 48.2-134		4						
Surrogate: 1-Chlorooctadecane	<i>97.9 % 49.1-148</i>		8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name	: Mewbourne Oil Company									11 70				ANALYSIS REQUEST				
Project Manage	r: Lance Crenshaw						P.	P.O. #:										
Address: 261	2617 W Marland BLVD						C	mpar	ıy:	Etech Environmental	1							
City: Hobbs	State: NM	Zip	:	88240			A	tn: L	ance	Crenshaw	1.							
Phone #: 575	-396-2378 Fax #: 575-396-1	129					A	idress	5: 28	17 W Marland BLVD	1							
Project #: 182	96 Project Owner:	M	ewbo	ume (	Dil Cor	прапу	Ci	ty: H	lobbs		1							
Project Name:	Santo Nino SWD Riser						St	ate: N	M	Zip: 88240								
Project Location	n: UL/ E Sec 29 T18S - R30E		_				PI	none i	: 57	5-396-2378	1							
Sampler Name:	Ovied Ontive	ros					Fa	Fax #: 575-		ax #: 575-396-14		ax #: 575-396-1429			1			
FOR LAB USE ONLY		1		_	MAT	RIX.	2 1	PRES	SERV	SAMPLING	1							
Lab I.D. H233983	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER :	ACID/BASE:	DTHER :	DATE TIME	Chloride	Нд	BTEX 8021					
1	SW 1	C	1		X			1	X	07/27/203	X	X	X					
2	SW 3	C	1		X			1	X	07/27/203	X	X	X					
3	SW 4	C	1		X			1	-	07/27/203	X	X	X					
4	SW 5	C	1		X				X	07/27/203	X	X	X					
	SW 6	C	1		X			1	X	07/27/203	X	X	X					
6	FL 12 @ 4'	C	1		X		-	1	X	07/27/203	X	-	X					
7	FL 11 @ 4'	C	1		X	-		1	x	07/27/203	X	X	X					
8	WW 1	С	1		X			1 2	X	07/27/203	X	X	X					
9	FL 3 @ 3'	C	1		X				X	07/27/203	X	X	X					
10	NW 3	С	1		X				x	07/27/203	XI	X	X					

EASE NOT

PLEASE NOTE: Labelity and Domages. Candinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the smouth paid by the client for the analyses. All claims labeling these for neighbor cause whatsoever shall be deemed vanced unless made in writing and received by Candinal within 30 days allow completion of the caption bits service. Type event shall be for incidents or corresponding and exclusive including without limitation, business interruptions, loss of use, to loss of profile incurved by clance. It is also allow completion of the caption bits and profile incurved by clance. It is also allow completion of the caption of the service of the limitation of the caption of the capti

retroise, pane terms and cannot be state for incontrate of consequential carringes, including wincide limitation, business interruptions, loss of use, or loss or prove incurred by date, its subsidiaries, afflight or subsidiari

Relinguished By: Date: 7/28/23 Received By: Phone Result: 1 Yes D No Add'l Phone #: D No Fax Result: C Yes Add'I Fax #: Time: REMARKS: Email results to lance@etechenv.com 10:40 isnews Ma Received By: Relinquished By: Date: 4.1 Time: #140 **Delivered By: (Circle One)** Sample Condition CHECKED BY: -0.9° (Initials) Cool Intact Yes Yes Sampler - UPS - Bus - Other:

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



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 303 2226 EAY (575) 202 2476

Company Name	: Mewbourne Oil Company						1		BI	ill to	1			ANALYSIS REQUEST
Project Manage	r: Lance Crenshaw						P.	P.O. #:						
ddress: 261	7 W Marland BLVD						C	ompan	y:	Etoch Environmental	11			
ity: Hobbs	State: NM	Zip	:	8824	0		A	tn: L		Crenshaw	1			
hone #: 575	5-396-2378 Fax #: 575-396-14	ax #: 575-396-1429					A	idress	: 26	17 W Marland BLVD				
Project #: 18296 Project Owner: Mewbourne Oil Compan Project Name: Santo Nino SWD Riser Project Location: UL/ E Sec 29 T18S - R30E				npany	Ci	ty: H	obbs	}						
					St	ate: N	м	Zip: 88240						
					PI	none #	: 57	5-396-2378	1					
Bampler Name:	Ovied Ontive	ros				4	Fa	x #: 57	5-39	6-1429	A			
FOR LAB USE ONLY		1			MAT	RIX		PRES	ERV	SAMPLING				
Lab I.D. H133983		(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER :	ACID/BASE:	OTHER :	DATE TIME	Chloride	ТРН	BTEX 8021	
11	FL 13 @ 4'	C	1		X		-	)	(	07/27/203	X	X	X	
1200	FL 8 @ 4'	C	1		X	_		>		07/27/203	X	X	X	
13	NW 4	С	1		X			>	-	07/27/203	X	X	X	
14	FL 4 @ 3'	С	1		X		-	)	1	07/27/203	X	X	X	
	FL 6 @ 3'	C	1		X			)	(	07/27/203	X	X	X	
16	FL 1 @ 2'	С	1		X		-	)	(	07/27/203	X	X	X	
17	FL 10 @ 4'	C	1		X	-		)	(	07/27/203	X	X	X	
18	NW 5	C	1		X	_	1	)	(	07/27/203	IX	X	X	
	FL 7 @ 4'	С	1		X			>	(	07/27/203	1X	X	X	
20	NW 6	C	1		X					07/27/203	X	X	X	

PLEASE NOTE: Liability and Demages. Cardinal's liability and client's exclusive remedy for any claim anising whether based in contract or tort, shall be limited to the amount paid by the difert for the analyzes. All claims including those for negligence and any other cause wheteosver shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable

service. In no event shall Canthni be fighte for incidental or consequented damages, including without limitation, business interruptions, lass of use, or loss of profile injustred by client, its subsidiaries,

affiliates or suc en to fo fuo griters atoa ince of services nereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise ned to the peril

**Relinquished By:** Date **Received By:** Phone Result: U Yes C No Add'l Phone #: 23 2128 O Yes D No. Add'I Fax #: Fax Result: ime: REMARKS: Email results to lance@etechenv.com 10.40 0100 man 4 4 Relinquished By: **Received By:** Date: Time: #140 Sample Condition Delivered By: (Circle One) CHECKED BY: Cool Intact -0.9° (initiais) A. Sampler - UPS - Bus - Other: 0 No . No

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

AM

10:13:57

9/28/2023

OCD:

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Received



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476 **Company Name:** Mewbourne Oil Company BILL TO ANALYSIS REQUEST Project Manager: Lance Crenshaw P.O. #: Address: 2617 W Marland BLVD Company: Elsch Environmental 88240 City: Hobbs State: NM Zip: Attn: Lance Crenshaw Phone #: 575-396-2378 Fax #: 575-396-1429 Address: 2617 W Marland BLVD Project #: 18296 Mewbourne Oil Company Project Owner: City: Hobbs Project Name: Santo Nino SWD Riser State: NM Zip: 88240 Project Location: UL/ E Sec 29 T18S - R30E Phone #: 575-396-2378 Sampler Name: **Ovied Ontiveros** Fax #: 575-398-1429 FOR LAB USE ONLY MATRIX PRESERV. SAMPLING G)RAB OR (C)OMP ROUNDWATER VASTEWATER AINER 8021 Sample I.D. OTHER ; ACID/BASE: ICE / COOL Lab I.D. Chloride SLUDGE ONT DTHER BTEX HdT 123398.2 SOIL F DATE TIME 21 FL 9 @ 4' С X X 07/27/203 X X X PLEASE NOTE: Liability and Damages Cardinal's liability and client's exclusive remedy for any claim artising whether based in contract or tort, shall be limited to the exclusion gains by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be de under united united and received by Carolinal wilds 20 data after completion of the applicable rvice. In no event shall Cardinal be liable for incidential or consequential damages, including valibout tivalation, business interruptions, ious of use, or toos of profile incurred by client, its subsidiaries ng out of or re ce of services hereunder by Cardinal, reparchess of whether such claim is based upon any of the above stated reaso **Relinquished By:** Received By: Phone Result: U Yes O No Add'l Phone #: 12 Fax Result: D Yes D No Add'I Fax #: mores REMARKS: Email results to lancedetechenv.com D:40 Received By: Relinguished By: Date: Time:

CHECKED BY:

(initials)

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Sample Condition

Yes Yes

Cool Intact

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

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



August 07, 2023

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

RE: SANTO NINO SWD RISER

Enclosed are the results of analyses for samples received by the laboratory on 07/28/23 13:18.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

# Sample ID: WW 2 (H233994-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.97	98.7	2.00	5.01	
Toluene*	<0.050	0.050	08/05/2023	ND	1.87	93.7	2.00	7.48	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.86	93.0	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.59	93.2	6.00	8.15	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/04/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	166	83.2	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	176	87.8	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	128 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane 140 %		% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

# Sample ID: SW 7 (H233994-02)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.97	98.7	2.00	5.01	
Toluene*	<0.050	0.050	08/05/2023	ND	1.87	93.7	2.00	7.48	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.86	93.0	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.59	93.2	6.00	8.15	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/04/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	166	83.2	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	176	87.8	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	119 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	133 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

## Sample ID: EW 1 (H233994-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.97	98.7	2.00	5.01	
Toluene*	<0.050	0.050	08/05/2023	ND	1.87	93.7	2.00	7.48	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.86	93.0	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.59	93.2	6.00	8.15	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	′kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/04/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	166	83.2	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	176	87.8	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	130 \$	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	145 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

#### Sample ID: FL 14 @ 4' (H233994-04)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.97	98.7	2.00	5.01	
Toluene*	<0.050	0.050	08/05/2023	ND	1.87	93.7	2.00	7.48	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.86	93.0	2.00	8.14	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.59	93.2	6.00	8.15	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	08/04/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2023	ND	166	83.2	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	176	87.8	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	Surrogate: 1-Chlorooctane 119 % 48.2-12		4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**RDINAL LABORATORIES** 

101 East Marland, Hobbs, NM 88240 (678) 303 3336 EAV (678) 303 3478

Company Name			ing.		c.M.	emb	ou	al		B	ILL TO					ANALYSIS	REQU	JEST		
Project Manager									.0. #:											
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ity: Lovingto	n	State: NM	Zip	: 88:	260			A	Attn: Jas		Attn: Janse (reas		chan	1						
Phone #: (575) 396-2378 Fax #: (575) 396-1429					A	ddres	s: /	, 0, bo	x 301	1										
Address:       Definition       3100       Plains &				c	ity:	101	wington	4												
Project Name:	Santo Ning	SWB,	Ri	50	-		~	3	tate: /	VM	Zip: 8	8260	1.	N.	BTEX (8021B)					
roject Location	: ULIS sec	29 F1	8	5-	R3	01	e"	P	hone	- 5	75-39	6-1318	P	10	802				- 1	
ampler Name:	Dried Or	Afiveros						E	ax #:	57	5-3167	424	ĬŽ	H	X					
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2	SW7		K	/		X				X	7/2/2	08:30		X	X				_	
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Received by OCD: 9/28/2023 10:13:57 AM

Page / of /



August 08, 2023

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

RE: SANTO NINO SWD RISER

Enclosed are the results of analyses for samples received by the laboratory on 08/07/23 15:49.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For:

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

Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	SANTO NINO SWD RISER	Sampling Condition:	Cool & Intact
Project Number:	18296	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE UL/E SEC29 T18S-R30E		

# Sample ID: NW 6C (H234185-01)

Chloride, SM4500Cl-B	loride, SM4500CI-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2023	ND	400	100	400	0.00	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		÷		ANALYSIS REQUEST
Project Manager: Lance Crenshaw	P	P.O. #:				
Address: 2617 West Marland	c	Company Etech				
City: Hobbs State: NM Zip: 88240	1	Attn: Lance Crens	haw			
Phone #: (575) 264-9884 Fax #:	A	Address: City: State: NM Zip: Phone #: Fax #:				
Project #: 18296 Project Owner: Mewbour						
Project Name: Santo Nino SWD Riser					(W)	
Project Location: Rural Eddy County, NM					TPH (8015M) BTEX (8021B)	803
Sampler Name: Matthew Grieco						
	MATRIX			Chloride	E	
Tap I.D.       Samble I.D.         #CONTAINERS       #CONTAINERS         #Soundwater       GROUNDWATER	SOIL OIL SLUDGE OTHER -	OTHER : ACID/BASE: ICE / COOL OTHER : DTHER :	RUS			
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether I analyses. All claims including those for negligence and any other cause whatsoever shell be deemed waived unless m service. In no event shell Cardinal be liable for incidential or consequential demages, including without limition, busine affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless or who	ide in writing and re- is interruptions, loss	ecaived by Cardinal within 30 days after is of use, or loss of profits incurved by cli	completion of the ent, its subsidiaries	applicable	•	
Relinquished By Date: Received By		11/11	Phone Resilt: Fax Result:		□ Yes □ Yes	
Belinquished By: Time: 549 Date: Received By:	UARA	Uldate	REMARKS:		_ 108	
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		al changes. Please fax		1		

**Revision 1.0** 

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# Appendix E Regulatory Correspondence

From:	Velez, Nelson, EMNRD
То:	Lance Crenshaw
Cc:	<u>cwalker@mewbourne.com; jbroom@mewbourne.com; Ben Arguijo; Matthew A. Grieco; Bratcher, Michael,</u> EMNRD; <u>Hamlet, Robert, EMNRD</u>
Subject:	Extension request for projects: Santo Nino SWD Line (NMOCD Incident # nAPP2316042324) and the Mckamey Fed #1Y (nAPP2316627313)
Date:	Wednesday, August 2, 2023 8:42:14 AM
Attachments:	Outlook-ol0aob5r.png

Some people who received this message don't often get email from nelson.velez@emnrd.nm.gov. Learn why this is important

Good morning Lance,

Your 30-day (September 29, 2023) time extension request is approved. Remediation Due date has been updated for both incidents.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



previous email submittal;

From: Lance Crenshaw <lance@etechenv.com>
Sent: Tuesday, August 1, 2023 10:48 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Connor Walker

<cwalker@mewbourne.com>; jbroom@mewbourne.com **Cc:** Ben Arguijo <bena@etechenv.com>; Matthew A. Grieco <matthewg@etechenv.com> **Subject:** [EXTERNAL] Extension request for projects

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

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) has contracted Etech Environmental & Safety Solutions, Inc. (Etech), to conduct remediation activities for the releases known as the Santo Nino SWD Line (NMOCD Incident # nAPP2316042324) and the Mckamey Fed #1Y (nAPP2316627313). Both are located in Eddy County. Pursuant to NMOCD regulations, a work plan or closure report is due for the Santo Nino release on **August 28, 2023 and on the McKamey release on August 31, 2023**. Etech has started excavation activities at the Santo Nino SWD Line and plans to move to the McKamey directly following the completion of remediation activities at the Santo Nino. We are also working another release for Mewbourne, the Chile Verde Water Transfer Line, which most of our crews are dedicated to. We just want to make sure we get everything done in a timely manner and are able to meet deadlines, with multiple crews working.

In consideration of this, Etech, on behalf of Mewbourne, requests a **30 day extension** until **Friday**, **September 29, 2023**, to allow us to fully excavate the sites, gather excavation confirmation samples, backfill the site and prepare a site closure request.

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

Thank you for your time and consideration.

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

From:	Lance Crenshaw
То:	Enviro, OCD, EMNRD; Ben Arguijo; jbroom@mewbourne.com; Connor Walker
Subject:	Confirmation Sampling Notification
Date:	Wednesday, July 26, 2023 4:36:57 PM

This email serves as notice that Etech intends to collect excavation confirmation soil samples on July 31, 2023, from the following locations/reportable release sites:

Mewbourne Oil Co – Jennings Battery- nAPP2316570980 Mewbourne Oil Co – Santo Nino SWD Line - nAPP2316042324

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

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

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	270006
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2316042324 SANTO NINO SWD RISER, thank you. This Remediation Closure Report is approved. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc, will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	2/14/2024

CONDITIONS

Action 270006