

Incident ID	nAPP222236588
District RP	
Facility ID	
Application ID	


Closure

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Albert Ochoa Title: HSE Representative
Signature:  Date: 12/21/2022
email: albert.ochoa@goodnightmidstream.com Telephone: (432) 242-6629

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: 01/17/2023
Printed Name: Jennifer Nobui Title: Environmental Specialist A

Remediation Summary & Soil Closure Request

Goodnight Midstream Permian, LLC Nolan Ryan to Piper Pipeline

Lea County, New Mexico

Unit Letter "O", Section 13 & Unit Letter "B", Section 24, Township 21 South, Range 36 East

Latitude 32.4729350 North, Longitude 103.216814 West


NMOCD Reference No. nAPP2222236588


Prepared By:

Etech Environmental & Safety Solutions, Inc.

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Lubbock, Texas 79413



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Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream Permian, LLC (Goodnight), has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Nolan Ryan to Piper Pipeline (henceforth, "Nolan Ryan"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.4729350 Longitude: -103.216814

Provided GPS are in WGS84 format.

Site Name: <u>Nolan Ryan to Piper Pipeline</u>	Site Type: <u>SWD</u>
Date Release Discovered: <u>8/9/2022</u>	API # (if applicable): <u>30-025-45349</u>

Unit Letter	Section	Township	Range	County
O, B	13, 24	21S	36E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☒ Private (Name Dasco Cattle Co., LLC)

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>2778</u>	Volume Recovered (bbls) <u>200</u>
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

The release was attributed to the failure of a 16-inch poly produced water transfer line. The release affected an area of pasture measuring approximately 65,000 square feet. The majority of the release occurred on privately owned land. However, approximately 1,835 square feet of the affected area is owned by the State of New Mexico and administered by the New Mexico State Land Office (NMSLO).

Initial Response

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Nolan Ryan 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?	>140'		
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
>140'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 INITIAL SITE ASSESSMENT

On August 10, 2022, Etech conducted an initial site assessment. During the initial site assessment, a series of six (6) hand-augered soil bores (V1 through V6) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit. The soil bores were advanced in one (1) foot increments until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria or until refusal was met.

Based on field observations and field test data, six (6) confirmation soil samples (V1 @ 2' - R, V2 @ 3' - R, V3 @ 4' - R, V4 @ 2' - R, V5 @ 2' - R, and V6 @ 3' - R) were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, additional vertical delineation beyond the point of refusal was required in the areas characterized by each of the sample points V1 through V6.

5.0 REGULATORY APPROVALS & STIPULATIONS

On August 17, 2022, based on the initial site assessment, the size and nature of the impacted area, the prompt initial response, and the estimated depth to groundwater, an *Alternative Sampling Plan, Site Assessment, and Characterization Report* (henceforth, "Alternative Sampling Plan") was submitted to the NMOCD proposing an alternative sampling plan to include the collection of excavation confirmation samples representing every 500 square feet. The *Alternative Sampling Plan* was subsequently approved by the NMOCD, with the stipulation that additional depth to groundwater data and NMOSE documentation be provided.

For additional information, please reference the *Alternative Sampling Plan* and supplemental depth to groundwater documentation (dated August 30, 2022), which are available in the NMOCD Imaging System.

6.0 REMEDIATION ACTIVITIES SUMMARY

On August 11, 2022, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a Hach Quantab® chloride test kit were utilized to field-screen the horizontal extent of impacted soil and to guide the excavation. The sidewalls and floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Pursuant to the NMOCD-approved *Alternative Sampling Plan*, representative five-point composite confirmation soil samples were collected every 500 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On August 15, 2022, Etech collected five (5) confirmation soil samples (EW 1, WW 1, FL 1 @ 4', FL 2 @ 4', and FL 3 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 16.0 mg/kg in soil sample WW 1 to 5,040 mg/kg in soil sample FL 3 @ 4'.

On August 16, 2022, Etech collected 10 confirmation soil samples (NW 1, EW 2, SW 1, WW 2, and FL 4 @ 4' through FL 9 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH

concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 64.0 mg/kg in soil samples NW 1 and FL 5 @ 2' to 10,900 mg/kg in soil sample FL 8 @ 4'

On August 17, 2022, Etech collected five (5) confirmation soil samples (EW 3, WW 3, FL 10 @ 4', FL 11 @ 4', and FL 12 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil sample WW 3 to 10,000 mg/kg in soil sample FL 12 @ 4'.

On August 18, 2022, Etech collected 11 confirmation soil samples (EW 4, SW 2, WW 4, and FL 13 @ 4' through FL 20 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample EW 4 to 4,440 mg/kg in soil sample FL 13 @ 4'.

On August 19, 2022, Etech collected eight (8) confirmation soil samples (EW 5, SW 3, WW 5, and FL 21 @ 4' through FL 25 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 48.0 mg/kg in soil sample SW 3 to 4,040 mg/kg in soil sample FL 23 @ 4'.

On August 22, 2022, Etech collected 10 confirmation soil samples (FL 26 @ 4' through FL 35 @ 4') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 96.0 mg/kg in soil sample FL 30 @ 4' to 2,520 mg/kg in soil sample FL 29 @ 4'.

On August 23, 2022, Etech collected 10 confirmation soil samples (FL 36 @ 4' through FL 45 @ 4') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL, with the exception of soil sample FL 45 @ 4', which exhibited a TPH concentration of 10.1 mg/kg. Chloride concentrations ranged from 1,100 mg/kg in soil sample FL 39 @ 4' to 11,600 mg/kg in soil sample FL 44 @ 4'.

On August 24, 2022, Etech collected 23 confirmation soil samples (FL 46 @ 4' through FL 68 @ 4') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 96.0 mg/kg in soil sample FL 55 @ 4' to 14,600 mg/kg in soil sample FL 47 @ 4'.

On August 25, 2022, Etech collected 16 confirmation soil samples (FL 69 @ 4' through FL 84 @ 4') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 80.0 mg/kg in soil sample FL 75 @ 4' to 11,800 mg/kg in soil sample FL 69 @ 4'.

On August 26, 2022, Etech collected eight (8) confirmation soil samples (NW 2, EW 6, EW 7, EW 8, SW 4, WW 6, WW 7, and WW 8) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil sample WW 6 to 288 mg/kg in soil sample WW 7.

On August 29, 2022, Etech collected 12 confirmation soil samples (FL 85 @ 4' through FL 96 @ 4') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX 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 720 mg/kg in soil sample FL 86 @ 4' to 26,400 mg/kg in soil sample FL 90 @ 4'. Chloride concentrations exceeded the NMOCD Closure Criterion in soil samples FL 88 @ 4' and FL 90 @ 4'.

On August 31, 2022, Etech collected 30 confirmation soil samples (FL 97 @ 4' through FL 126 @ 4') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 48.0 mg/kg in soil sample FL 119 @ 4' to 12,400 mg/kg in soil sample FL 117 @ 4'.

On September 1, 2022, Etech collected 10 confirmation soil samples (NW 3, NW 4, EW 9, SW 5, SW 6, and FL 127 @ 3' through FL 131 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample SW 5 to 3,440 mg/kg in soil sample FL 131 @ 4'.

On September 6, 2022, Etech collected four (4) confirmation soil samples (NW 5, SW 7, FL 132 @ 4', and FL 133 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 64.0 mg/kg in soil sample NW 5 to 5,680 mg/kg in soil sample FL 132 @ 4'.

On September 8, 2022, Etech collected 15 confirmation soil samples (NW 6, SW 8, and FL 134 @ 4' through FL 146 @ 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 6 to 28,800 mg/kg in soil sample FL 141 @ 4'. Chloride concentrations exceeded the NMOCD Closure Criterion in soil samples FL 141 @ 4' and FL 146 @ 4'.

On September 9, 2022, Etech collected 12 confirmation soil samples (EW 10, WW 9, and FL 147 @ 4' through FL 156 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 144 mg/kg in soil sample EW 10 to 10,900 mg/kg in soil sample FL 149 @ 4'.

On September 12, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FL 88 @ 4' and FL 90 @ 4'. Etech collected 12 confirmation soil samples (NW 7, FL 88 @ 4.5', FL 90 @ 4.5',

and FL 157 @ 4' through FL 165 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 432 mg/kg in soil sample NW 7 to 11,800 mg/kg in soil sample FL 159 @ 4'.

On September 13, 2022, Etech collected 19 confirmation soil samples (NW 8, NW 9, EW 11, EW 12, SW 9, SW 10, WW 10, WW 11, and FL 166 @ 4' through FL 176 @ 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 less than the laboratory MDL in soil samples WW 10 and WW 11 to 20,000 mg/kg in soil sample FL 173 @ 4', which equaled the NMOCD Closure Criterion.

On September 14, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples FL 141 @ 4' and FL 146 @ 4'. Etech collected five (5) confirmation soil samples (NW 10, WW 12, FL 141 @ 4.5', FL 146 @ 4.5', and FL 177 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 160 mg/kg in soil sample WW 12 to 12,200 mg/kg in soil sample FL 146 @ 4.5'.

On September 19, 2022, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample FL 173 @ 4'. Etech collected one (1) confirmation soil sample (FL 173 @ 4.5') from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. BTEX and TPH concentrations were also below the applicable laboratory MDL. The chloride concentration was 8,160 mg/kg.

On September 29, 2022, Etech collected 10 confirmation soil samples (EW 13, SW 11, SW 12, WW 13, and FL 177 @ 4' through FL 182 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample WW 13 to 3,800 mg/kg in soil sample FL 178 @ 4'.

On September 29, 2022, Etech also utilized a backhoe to advance a series of test trenches (T.T. 1 through T.T. 4) in the floor of the excavated area to ensure that vertical delineation of chloride to below 600 mg/kg had been achieved. During the advancement of the test trenches, soil samples were collected and field-screened for the presence of VOCs utilizing olfactory/visual senses and/or concentrations of chloride utilizing a chloride test kit. The trenches were advanced in one (1) foot increments until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the NMOCD Reclamation Standards of 50 mg/kg, 100 mg/kg, and 600 mg/kg, respectively.

Based on field observations and field test data, four (4) delineation soil samples (T.T. 1 @ 8', T.T. 2 @ 7', T.T. 3 @ 8', and T.T. 4 @ 8') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample T.T. 1 @ 8' to 32.0 mg/kg in soil sample T.T. 3 @ 8'. Based on these laboratory analytical results, the vertical extent of impacted soil was adequately defined.

The final dimensions of the excavated area were approximately 520 to 596 feet in length, 2.5 to 558 feet in width, and two (2) to 4.5 feet in depth. During the course of remediation activities, Etech transported approximately 16,053 cubic yards of

impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 18,748 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

The extent of the excavated area and the locations of the confirmation soil samples and test trenches are depicted in Figures 3A and 3B. 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.

7.0 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.

8.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines and the NMOCD-approved *Alternative Sampling Plan*. 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 Goodnight provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Nolan Ryan release site.

9.0 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 Goodnight Midstream Permian, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Goodnight Midstream Permian, LLC.

10.0 DISTRIBUTION

Goodnight Midstream Permian, LLC

5910 N Central Expy

Suite 800

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

1220 South St. Francis Drive

Santa Fe, NM 87505

New Mexico State Land Office

Hobbs Field Office

2827 North Dal Paso Street

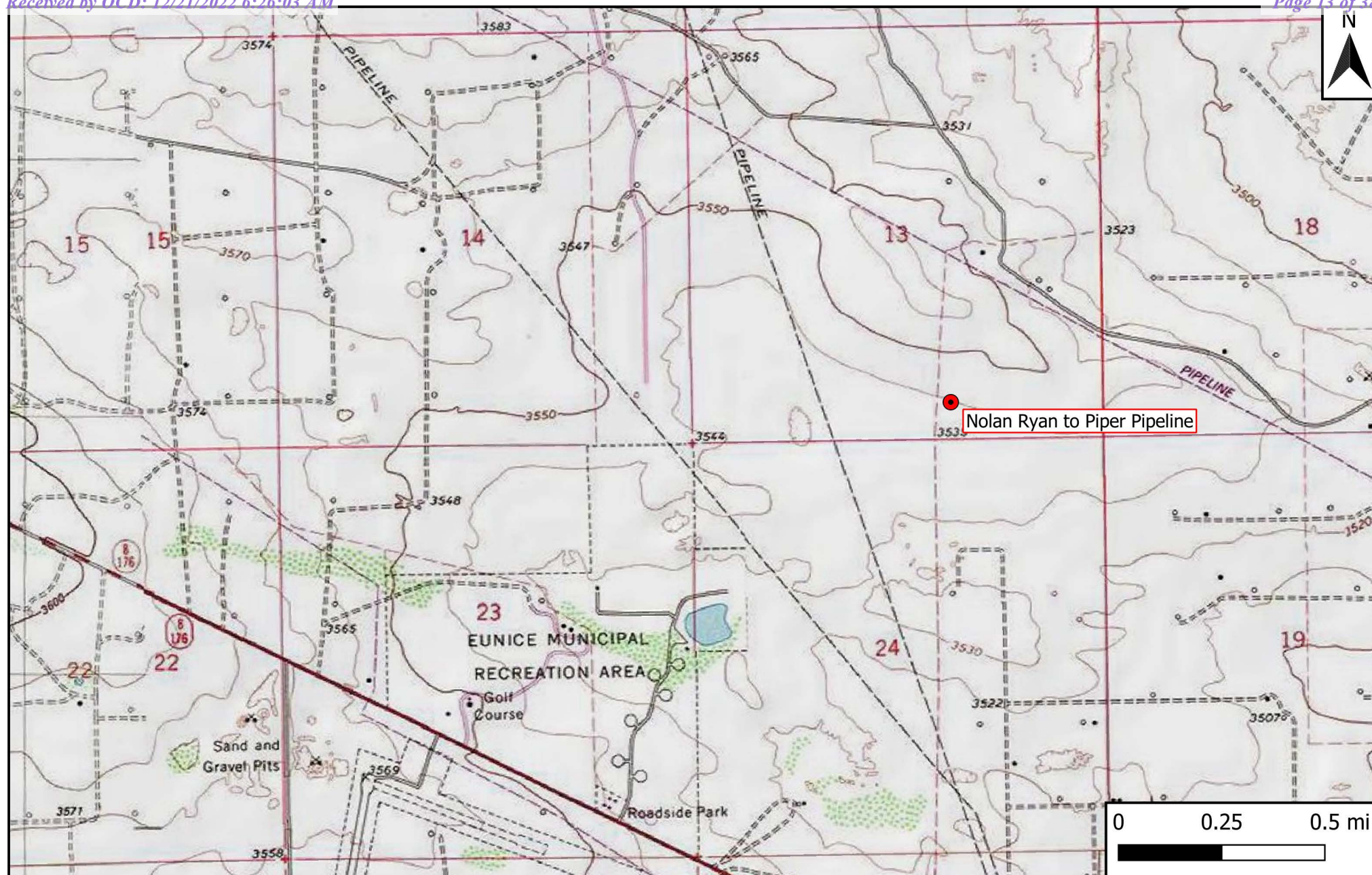
Suite 117

Hobbs, NM 88240

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1

Topographic Map
 Goodnight Midstream Permian, LLC
 Nolan Ryan to Piper Pipeline
 GPS: 32.472935, -103.216814
 Lea County



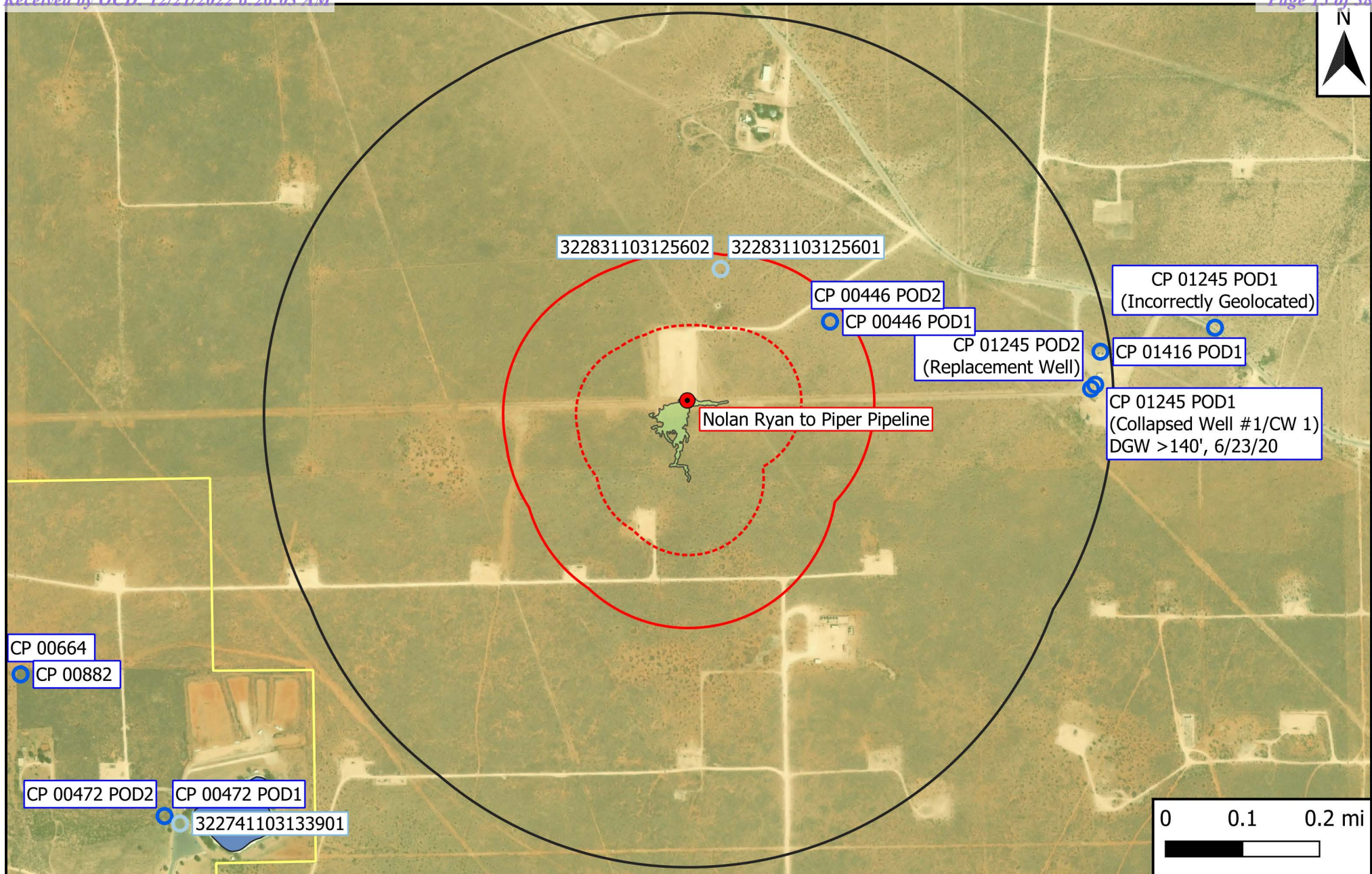
Drafted: bja

Checked: jwl

Date: 10/13/22

Figure 2

Site Characterization Map



Legend

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

Figure 2
 Site Characterization Map
 Goodnight Midstream Permian, LLC
 Nolan Ryan to Piper Pipeline
 GPS: 32.472935, -103.216814
 Lea County



Drafted: bja

Checked: jwl

Date: 12/15/22

Figure 3A & 3B

Site & Sample Location Maps



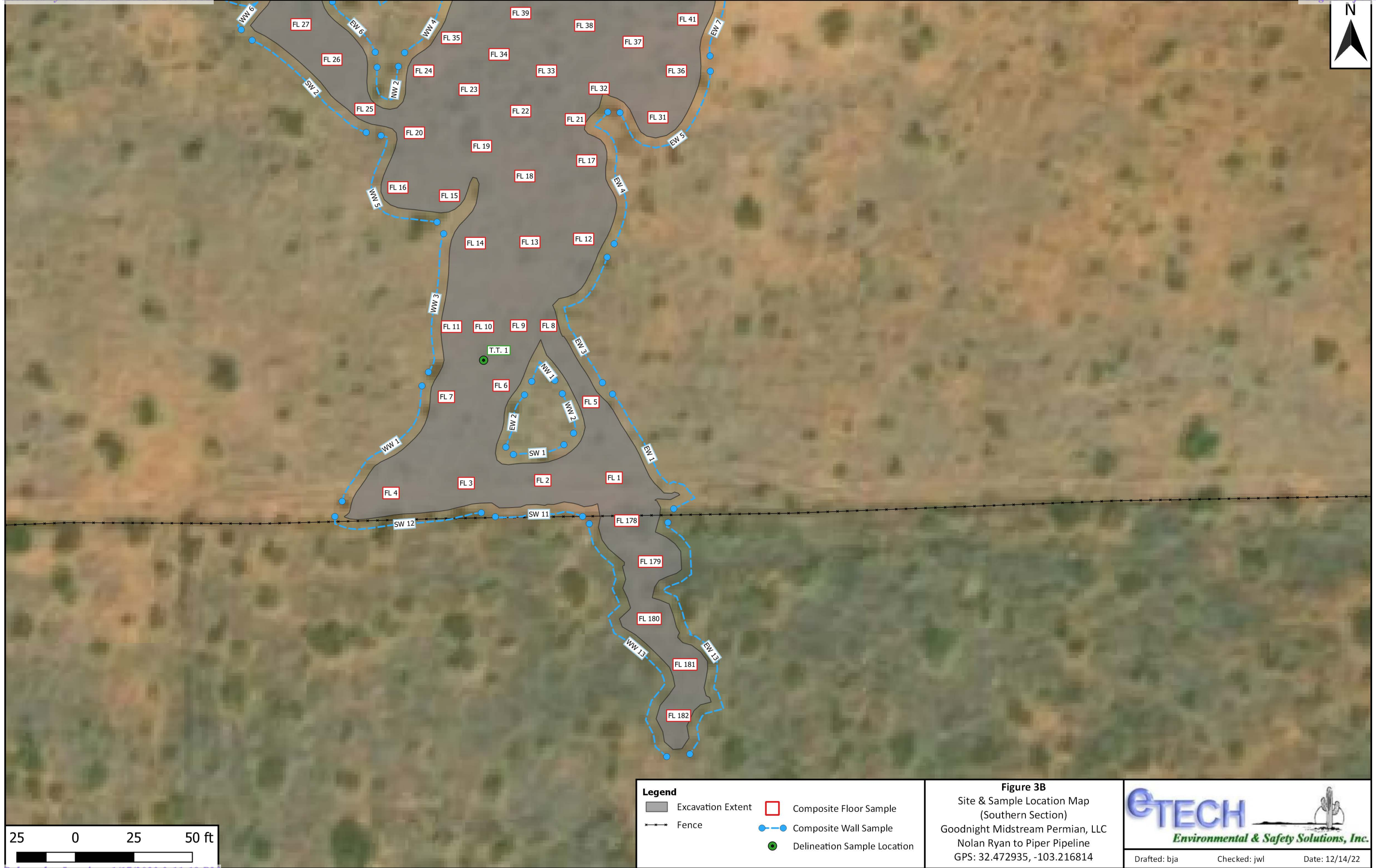


Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Goodnight Midstream Permian, LLC
Nolan Ryan to Piper Pipeline
NMOCD Ref. #: nAPP2222236588

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Delineation Samples											
V1 @ 2' - R	8/10/2022	2	Excavated	<0.050	0.334	<10.0	<10.0	<20.0	<10.0	<30.0	19,400
V2 @ 3' - R	8/10/2022	3	Excavated	0.143	1.08	<10.0	16.7	16.7	<10.0	16.7	19,400
V3 @ 4' - R	8/10/2022	4	In-Situ	0.241	0.518	<10.0	<10.0	<20.0	<10.0	<30.0	13,700
V4 @ 2' - R	8/10/2022	2	Excavated	0.0660	1.17	<10.0	<10.0	<20.0	<10.0	<30.0	16,500
V5 @ 2' - R	8/10/2022	2	Excavated	0.201	0.534	<10.0	<10.0	<20.0	<10.0	<30.0	23,200
V6 @ 3' - R	8/10/2022	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	15,400
T.T. 1 @ 8'	9/29/2022	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
T.T. 2 @ 7'	9/29/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
T.T. 3 @ 8'	9/29/2022	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
T.T. 4 @ 8'	9/29/2022	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
Excavation Samples											
NW 1	8/16/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 2	8/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 3	9/1/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 4	9/1/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 5	9/6/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 6	9/8/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 7	9/12/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
NW 8	9/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 9	9/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 10	9/14/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
EW 1	8/15/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
EW 2	8/16/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW 3	8/17/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 4	8/18/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 5	8/19/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 6	8/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW 7	8/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
EW 8	8/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW 9	9/1/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 10	9/9/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EW 11	9/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 12	9/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 13	9/29/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 1	8/16/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW 2	8/18/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 3	8/19/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 4	8/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 5	9/1/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 6	9/1/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 7	9/6/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Goodnight Midstream Permian, LLC
Nolan Ryan to Piper Pipeline
NMOCD Ref. #: nAPP2222236588

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SW 8	9/8/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 9	9/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 10	9/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 11	9/29/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 12	9/29/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 1	8/15/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 2	8/16/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WW 3	8/17/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 4	8/18/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 5	8/19/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 6	8/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 7	8/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
WW 8	8/26/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 9	9/9/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
WW 10	9/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 11	9/13/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW 12	9/14/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WW 13	9/29/2022	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 1 @ 4'	8/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,640
FL 2 @ 4'	8/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,200
FL 3 @ 4'	8/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,040
FL 4 @ 4'	8/16/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,600
FL 5 @ 2'	8/16/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 6 @ 4'	8/16/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,400
FL 7 @ 4'	8/16/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,800
FL 8 @ 4'	8/16/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,900
FL 9 @ 4'	8/16/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,800
FL 10 @ 4'	8/17/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,880
FL 11 @ 4'	8/17/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,600
FL 12 @ 4'	8/17/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,000
FL 13 @ 4'	8/18/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,440
FL 14 @ 4'	8/18/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,000
FL 15 @ 4'	8/18/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,120
FL 16 @ 4'	8/18/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 17 @ 4'	8/18/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,140
FL 18 @ 4'	8/18/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,160
FL 19 @ 4'	8/18/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,500
FL 20 @ 4'	8/18/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 21 @ 4'	8/19/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,200
FL 22 @ 4'	8/19/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,030
FL 23 @ 4'	8/19/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,040
FL 24 @ 4'	8/19/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Goodnight Midstream Permian, LLC Nolan Ryan to Piper Pipeline NMOCD Ref. #: nAPP2222236588											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 25 @ 4'	8/19/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FL 26 @ 4'	8/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 27 @ 4'	8/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 28 @ 4'	8/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 29 @ 4'	8/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,520
FL 30 @ 4'	8/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 31 @ 4'	8/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 32 @ 4'	8/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 33 @ 4'	8/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 34 @ 4'	8/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
FL 35 @ 4'	8/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 36 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,200
FL 37 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,820
FL 38 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,440
FL 39 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,100
FL 40 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
FL 41 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,040
FL 42 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,200
FL 43 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,320
FL 44 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,600
FL 45 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	10.1	10.1	3,200
FL 46 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 47 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	14,600
FL 48 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	14,200
FL 49 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,060
FL 50 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,400
FL 51 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	912
FL 52 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,960
FL 53 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,840
FL 54 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,000
FL 55 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 56 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 57 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,640
FL 58 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,530
FL 59 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,480
FL 60 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,320
FL 61 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,120
FL 62 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,560
FL 63 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,330
FL 64 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,720
FL 65 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,200
FL 66 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	13,800

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Goodnight Midstream Permian, LLC
Nolan Ryan to Piper Pipeline
NMOCD Ref. #: nAPP2222236588

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 67 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,000
FL 68 @ 4'	8/24/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,000
FL 69 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,800
FL 70 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,800
FL 71 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,880
FL 72 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 73 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
FL 74 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 75 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 76 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,530
FL 77 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,040
FL 78 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,000
FL 79 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,240
FL 80 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,400
FL 81 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,000
FL 82 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,560
FL 83 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 84 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,200
FL 85 @ 4'	8/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,920
FL 86 @ 4'	8/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	720
FL 87 @ 4'	8/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,660
FL 88 @ 4'	8/29/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	23,000
FL 88 @ 4.5'	9/12/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,200
FL 89 @ 4'	8/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
FL 90 @ 4'	8/29/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	26,400
FL 90 @ 4.5'	9/12/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,800
FL 91 @ 4'	8/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,680
FL 92 @ 4'	8/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,040
FL 93 @ 4'	8/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,680
FL 94 @ 4'	8/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,560
FL 95 @ 4'	8/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,760
FL 96 @ 4'	8/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,760
FL 97 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,560
FL 98 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,400
FL 99 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,480
FL 100 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 101 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 102 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,200
FL 103 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,400
FL 104 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
FL 105 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	720
FL 106 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
Goodnight Midstream Permian, LLC
Nolan Ryan to Piper Pipeline
NMOCD Ref. #: nAPP2222236588

NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 107 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,280
FL 108 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,080
FL 109 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,800
FL 110 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,000
FL 111 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,920
FL 112 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,600
FL 113 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,680
FL 114 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,760
FL 115 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,800
FL 116 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 117 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,400
FL 118 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,200
FL 119 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 120 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
FL 121 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,800
FL 122 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 123 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 124 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
FL 125 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,490
FL 126 @ 4'	8/31/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,680
FL 127 @ 3'	9/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 128 @ 4'	9/1/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,300
FL 129 @ 4'	9/1/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
FL 130 @ 4'	9/1/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,840
FL 131 @ 4'	9/1/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,440
FL 132 @ 4'	9/6/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,680
FL 133 @ 4'	9/6/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,440
FL 134 @ 4'	9/8/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
FL 135 @ 4'	9/8/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,560
FL 136 @ 4'	9/8/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,400
FL 137 @ 4'	9/8/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,920
FL 138 @ 4'	9/8/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,640
FL 139 @ 4'	9/8/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	15,400
FL 140 @ 4'	9/8/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,200
FL 141 @ 4'	9/8/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	28,800
FL 141 @ 4.5'	9/14/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,660
FL 142 @ 4'	9/8/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,400
FL 143 @ 4'	9/8/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,400
FL 144 @ 4'	9/8/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,680
FL 145 @ 4'	9/8/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,240
FL 146 @ 4'	9/8/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	23,000
FL 146 @ 4.5'	9/14/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,200

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

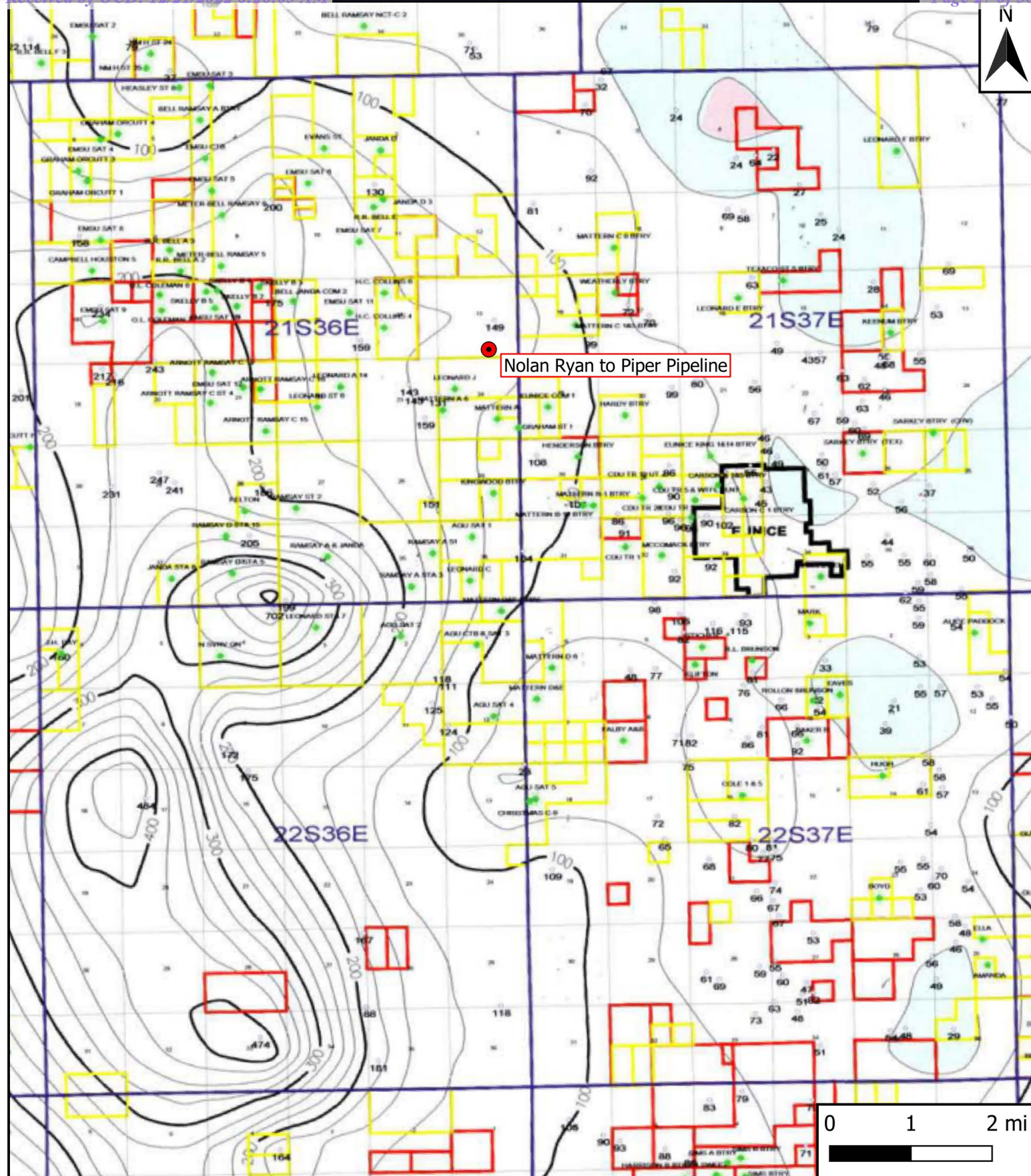
Table 1 Concentrations of BTEX, TPH & Chloride in Soil Goodnight Midstream Permian, LLC Nolan Ryan to Piper Pipeline NMOCD Ref. #: nAPP2222236588											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 147 @ 4'	9/9/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,730
FL 148 @ 4'	9/9/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,530
FL 149 @ 4'	9/9/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,900
FL 150 @ 4'	9/9/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,060
FL 151 @ 4'	9/9/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,600
FL 152 @ 4'	9/9/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,880
FL 153 @ 4'	9/9/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,640
FL 154 @ 4'	9/9/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,880
FL 155 @ 4'	9/9/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,460
FL 156 @ 4'	9/9/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,640
FL 157 @ 4'	9/12/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,840
FL 158 @ 4'	9/12/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,000
FL 159 @ 4'	9/12/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,800
FL 160 @ 4'	9/12/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,640
FL 161 @ 4'	9/12/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,960
FL 162 @ 4'	9/12/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,040
FL 163 @ 4'	9/12/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,960
FL 164 @ 4'	9/12/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,360
FL 165 @ 4'	9/12/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,700
FL 166 @ 4'	9/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,000
FL 167 @ 4'	9/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,000
FL 168 @ 4'	9/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,800
FL 169 @ 4'	9/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	15,200
FL 170 @ 4'	9/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,000
FL 171 @ 4'	9/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,400
FL 172 @ 4'	9/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,600
FL 173 @ 4'	9/13/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	20,000
FL 173 @ 4.5'	9/19/2022	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,160
FL 174 @ 4'	9/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	15,400
FL 175 @ 4'	9/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,400
FL 176 @ 4'	9/13/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,800
FL 177 @ 4'	9/14/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,200
FL 177 @ 4'	9/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,280
FL 178 @ 4'	9/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,800
FL 179 @ 4'	9/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,960
FL 180 @ 4'	9/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,730
FL 181 @ 4'	9/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,340
FL 182 @ 4'	9/29/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,560

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

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

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
 Goodnight Midstream Permian, LLC
 Nolan Ryan to Piper Pipeline
 GPS: 32.472935, -103.216814
 Lea County



Drafted: bja

Checked: bja

Date: 10/13/22



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00446 POD1	CP	LE		1	4	4	13	21S	36E	667871	3594424*	340	185	148	37
CP 00446 POD2	CP	LE		1	4	4	13	21S	36E	667871	3594424*	340	200	151	49
CP 01245 POD1	CP	LE				4	18	21S	37E	668676	3594411	1113	220		
CP 00472 POD1	CP	LE		4	4	2	23	21S	36E	666480	3593391*	1395	200	140	60
CP 00472 POD2	CP	LE		4	4	2	23	21S	36E	666480	3593391*	1395	200	140	60
CP 01850 POD1	CP	LE		3	3	4	18	21S	37E	669023	3594266	1450	200	110	90
CP 00664	CP	LE				2	23	21S	36E	666179	3593687*	1506	185	150	35
CP 00882	CP	LE				2	23	21S	36E	666179	3593687*	1506	195	142	53

Average Depth to Water: **140 feet**

Minimum Depth: **110 feet**

Maximum Depth: **151 feet**

Record Count: 8

UTMNA83 Radius Search (in meters):

Easting (X): 667572.7

Northing (Y): 3594259.25

Radius: 1610

*UTM location was derived from PLSS - see Help

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

12/7/22 9:54 AM


Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00446 POD1	1	4	4	13	21S	36E	667871	3594424* 
Driller License:		Driller Company:							
Driller Name:		FRANK TURNER							
Drill Start Date:	10/31/1915	Drill Finish Date:		10/31/1915		Plug Date:			
Log File Date:		PCW Rev Date:				Source:			
Pump Type:	TURBIN	Pipe Discharge Size:		2.25		Estimated Yield: 100 GPM			
Casing Size:	8.63	Depth Well:		185 feet		Depth Water: 148 feet			

*UTM location was derived from PLSS - see Help

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12/14/22 6:40 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00446 POD2	1	4	4	13	21S	36E	667871	3594424* 
Driller License:		Driller Company:							
Driller Name:		GRDAY ROBERTS							
Drill Start Date:	12/31/1945	Drill Finish Date:	12/31/1945				Plug Date:		
Log File Date:		PCW Rev Date:					Source:		
Pump Type:	TURBIN	Pipe Discharge Size:	4				Estimated Yield:	120 GPM	
Casing Size:	8.63	Depth Well:	200 feet				Depth Water:	151 feet	

*UTM location was derived from PLSS - see Help

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12/14/22 6:41 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
	CP 01245 POD1			4	18	21S	37E	668676	3594411		
Driller License: 1682		Driller Company:				HUNGRY HORSE, LLC.					
Driller Name: NORRIS, JOHN D.											
Drill Start Date: 09/25/2013		Drill Finish Date:				09/30/2013		Plug Date:			
Log File Date: 11/06/2013		PCW Rcv Date:						Source:		Shallow	
Pump Type: SUBMER		Pipe Discharge Size:						Estimated Yield:			
Casing Size: 8.00		Depth Well:				220 feet		Depth Water:			
Water Bearing Stratifications:					Top	Bottom	Description				
					34	83	Sandstone/Gravel/Conglomerate				
					89	214	Sandstone/Gravel/Conglomerate				
Casing Perforations:					Top	Bottom					
					0	220					

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12/14/22 6:41 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Right Summary


[get image list](#)

WR File Number: CP 01245 **Subbasin:** CP **Cross Reference:** -
Primary Purpose: COM COMMERCIAL
Primary Status: PMT PERMIT
Total Acres: 0 **Subfile:** - **Header:** -
Total Diversion: 80 **Cause/Case:** -
Owner: PIPER ENERGY, LLC.
Contact: CHARLES R. BRIGGS
Owner: ATKINS ENGR ASSOC INC
Contact: RICHARD C CIBAK

Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
				1	2		To				
get images	604424	SUPPL	2015-07-13	PMT	APR	CP 01245	T		0	0	0
get images	604415	APPRO	2014-04-29	PMT	APR	CP 01245	T		0	80	80

Current Points of Diversion

(NAD83 UTM in meters)									
POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
CP 01245 POD1		Shallow		4	18	21S 37E	668676	3594411	
CP 01245 POD2				4	18	21S 37E	668417	3594283	

Priority Summary

Priority	Status	Acres	Diversion	Pod Number	
10/09/2013	PMT	0	80	CP 01245 POD1	Shallow
				CP 01245 POD2	

Place of Use

Q	Q	256	64	Q16	Q4Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
								0	80	80	COM	10/09/2013	PMT	NO PLACE OF USE GIVEN

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	80	80	COM	10/09/2013	GW

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

12/15/22 11:55 AM

 WATER RIGHT
SUMMARY



New Mexico Office of the State Engineer

Transaction Summary

APPRO Application to Appropriate

Transaction Number: 604415

Transaction Desc: CP 01245

File Date: 10/09/2013

Primary Status: PMT Permit


Secondary Status: APR Approved

Person Assigned: *****

Applicant: PIPER ENERGY, LLC

Contact: CHARLES R. BRIGGS

Events

	Date	Type	Description	Comment	Processed By
	10/09/2013	APP	Application Received	*	*****
	01/17/2014	NFP	Notice for Publication		*****
	02/07/2014	AOP	Affidavit of Publication rcv		*****
	04/29/2014	NUC	No PBU or PCW Approval		*****
	04/29/2014	FIN	Final Action on application		*****
	03/20/2017	QAT	Quality Assurance Completed	SQ2	*****
	03/24/2017	CAP	Change Abstract to In-process		*****
	03/30/2017	QAT	Quality Assurance Completed	IMAGE	*****
	04/20/2020	ARW	WRAB Main File Rm Arch	CP 01245 Archived	*****
			Sect		
	05/28/2020	URM	PBU Reminder Letter		*****
	07/17/2020	QAT	Quality Assurance Completed	DATA	*****

Water Right Information

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
CP 01245	0	80	80	COM COMMERCIAL

**Point of Diversion

CP 01245 POD1	668676	3594411	
---------------	--------	---------	---

**Place of Use

Q	Q	Q	Q															
256	64	16	4	Sec	Tws	Rng	Acres	Diversion	Consumptive	Use	Priority	Status	Other	Loc	Desc			
							0	80	80	COM	10/09/2013	PMT	NO PLACE OF		USE GIVEN			

Remarks

"APPLICATION IS MADE TO DRILL A WELL IN THE CAPITAN
UNDERGROUND WATER BASIN FOR THE PURPOSE OF APPROPRIATING

UP TO 80.0 ACRE-FEET PER ANNUM FOR COMMERCIAL WATER SALES PURPOSES."

Conditions

- 5B A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor on or before the 10th of Jan., April, July, and Oct. of each year for the 3 preceding calendar months.
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- Q The State Engineer retains jurisdiction over this permit.
-

Action of the State Engineer

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved

Action Date: 04/29/2014

PBU Due Date: 05/31/2018

State Engineer: John R. D Antonio,

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

12/15/22 11:53 AM

TRANSACTION
SUMMARY



Ground Water Sampling Log

Well ID: CW1
Date: 6/23/20

Site Description/Construction Detail

Project: Piper SWD Personnel: JR JL
Well Description/Location: Collapsed well #1 Total Depth^a (ft bmp): 140.12
Type of Well: ☐ Monitor ☐ Recovery ☐ Potable ☐ Irrigation ☒ Other: _____
Casting Material: ☒ PVC ☐ Steel ☐ Other: _____ Diameter: ☐ 2" ☐ 4" ☐ 6" ☒ Other: 8" Screen Int. _____
Condition of Seal: ☒ Good ☐ Poor ☐ Needs Repair ☐ Other: _____ Well Locked? ☐ Y ☒ N

Gauging Data

Static Water Level^b (ft bmp) N/A Time 12:30 Measure Point Description North
Comments: Dry well

Well Purge Data

Volume Factors ^C					
Dia (in.)	2"	3"	4"	5"	6"
Gal/ft	0.163	0.367	0.623	1.02	1.469

Well Volume ((a-b) x c) = N/A gal

Purging Volume (3 x Well Vol) = *N/A* gal

Well Purging Method: ☐ Submersible ☐ Perisaltic ☐ Bailer ☐ Other: _____ Depth pump set (ft bmp) *N/A*

Water Quality Indicator Parameters

[illegible]

Recording Interval: Traditional volume purge - every $\frac{1}{2}$ well volumn; Low flow - every 3-5 min, drawdown should not exceed 0.33ft during purging.

Total Gallons Purged: Approximate Discharge Rate (gpm):

Sample Data

Sample Collection Method: ☐ Submersible ☐ Peristaltic ☐ Bailor ☐ Other: _____ Sample Time: _____

Duplicate Collected? ☐ Y ☒ N

Comments

Dry Well

Stability	* Ph: ± 0.1
Criteria	* SC: $\pm 5\%$, for SC $\leq 100 \mu\text{S/cm}$; $\pm 3\%$, For SC $> 100 \mu\text{S/cm}$
	* DO: $\pm 10\%$ or 0.3 mg/l (whichever is greater)
	* Temp: $\pm 0.22^\circ\text{C}$ (USGS for thermistor)

Sampling tubing left in well? ☐ Y ☒ N
If so, **length** (ft)?



New Mexico Office of the State Engineer


Transaction Summary

SUPPL Application for Supplemental Well (Ground)

Transaction Number: 604424 **Transaction Desc:** CP 01245 **File Date:** 09/17/2014

Primary Status: PMT Permit
Secondary Status: APR Approved
Person Assigned: *****
Applicant: PIPER ENERGY, LLC.
Contact: CHARLES R. BRIGGS
Applicant: ATKINS ENGINEERING ASSOC, INC.
Contact: RICHARD C. CIBAK

Events

	Date	Type	Description	Comment	Processed By
	09/17/2014	APP	Application Received	*	*****
	09/29/2014	NFP	Notice for Publication		*****
	05/18/2015	AOP	Affidavit of Publication rev		*****
	07/13/2015	NUC	No PBU or PCW Approval		*****
	07/13/2015	FIN	Final Action on application		*****
	03/20/2017	QAT	Quality Assurance Completed	SQ2	*****
	03/30/2017	QAT	Quality Assurance Completed	IMAGE	*****
	04/20/2020	ARW	WRAB Main File Rm Arch Sect	CP 01245 Archived	*****

Water Right Information

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
CP 01245	0	0	0	COM COMMERCIAL

**Point of Diversion

CP 01245 POD2	668417	3594283	
---------------	--------	---------	---

Remarks

"APPLICATION IS FILED TO DRILL A WELL TO BE USED AS A SUPPLEMENTAL/ALTERNATE POINT OF DIVERSION TO THE PREVIOUSLY PERMITTED WELL CP-1245. WELL CP-1245 HAS PARTIALLY FAILED RESULTING IN REDUCED CAPACITY."

"APPLICANT REQUESTS EMERGENCY AUTHORIZATION TO IMMEDIATELY DRILL AND USE THE CP-1245-POD2 WELL PURSUANT TO NEW MEXICO STATUTE 72-12-24. ATTACHED TO THIS APPLICATION IS A AFFIDAVIT REQUESTING AUTHORIZATION PURSUANT TO 72-12-24 NMSA(1978)."

"ALSO ATTACHED TO THIS APPLICATION IS A COPY OF NEW MEXICO STATE LAND OFFICE WATER EASEMENT NO. WR-715, AMENDMENT #1.

SAID AMENDMENT INCLUDES INFORMATION AUTHORIZING THE
DRILLING AND USE OF ADDITIONAL WELLS."

Conditions

- C Driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.
 - 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
 - Q The State Engineer retains jurisdiction over this permit.
-

Action of the State Engineer

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved

Action Date: 07/13/2015

State Engineer:

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12/15/22 11:51 AM

TRANSACTION
SUMMARY




New Mexico Office of the State Engineer

Water Right Summary


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WR File Number: CP 01416 **Subbasin:** CP **Cross Reference:** -
Primary Purpose: COM COMMERCIAL
Primary Status: PMT PERMIT
Total Acres: 0 **Subfile:** - **Header:** -
Total Diversion: 150 **Cause/Case:** -
Agent: ATKINS ENGR ASSOC INC
Contact: RICHARD C CIBAK
Owner: PIPER ENERGY, LLC
Contact: CHARLES R. BRIGGS

Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/To		Acres	Diversion	Consumptive
				1	2						
 get images	605873	APPRO	2015-10-29	PMT	APR	CP 01416	T		0	150	150

Current Points of Diversion

POD Number	Well Tag	Source	Q		(NAD83 UTM in meters)			X	Y	Other Location Desc
			64Q16Q4	Sec	Tws	Rng				
CP 01416 POD1			4	18	21S	37E		668436	3594361	N1/2 OR S1/2, NE1/4

Priority Summary

Priority	Status	Acres	Diversion	Pod Number
09/17/2014	PMT	0	150	CP 01416 POD1

Place of Use

Q Q		Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64 Q16 Q4							
	Sec Tw							
	Rng	0	150	150	COM	08/17/2014	PMT	NO PLACE OF USE GIVEN

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	150	150	COM	09/17/2014	GW

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12/15/22 11:04 AM

WATER RIGHT
SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CP 00472	POD1	4	4	2	23	21S	36E	666480	3593391* 
Driller License: 137		Driller Company:				ROBERTS, GRADY			
Driller Name:									
Drill Start Date: 12/31/1940		Drill Finish Date:				12/31/1940		Plug Date:	
Log File Date:		PCW Rev Date:						Source: Shallow	
Pump Type: SUBMER		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 7.00		Depth Well:				200 feet		Depth Water: 140 feet	

Meter Number:	18208	Meter Make:	KAMSTRUP
Meter Serial Number:	21461033	Meter Multiplier:	1.0000
Number of Dials:	9	Meter Type:	Diversion
Unit of Measure:	Gallons	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
10/10/2019	2019	665903	A	RPT		0
11/04/2019	2019	908281	A	RPT		0.744
12/03/2019	2019	10760195	A	RPT		0
01/07/2020	2019	12475873	A	RPT		5.265
03/09/2020	2020	16290574	A	RPT		11.707
12/01/2020	2020	31763478	A	RPT		47.485
01/05/2021	2020	33633006	A	RPT		5.737
02/01/2021	2021	34947544	A	RPT		4.034
03/01/2021	2021	36414623	A	RPT		4.502
04/01/2021	2021	0	A	RPT	Initial reading	0
04/01/2021	2021	37916517	A	RPT	Final Meter Read	4.609
05/03/2021	2021	1675316	A	RPT		5.141
10/01/2021	2021	8769070	A	WEB		21.770 X
11/01/2021	2021	10233916	A	WEB		4.495 X
12/01/2021	2021	11576326	A	WEB		4.120 X
01/03/2022	2021	12930372	A	WEB		4.155 X
02/01/2022	2022	13931045	A	WEB		3.071 X
03/01/2022	2022	14561033	A	WEB		1.933 X
03/31/2022	2022	15800767	A	WEB		3.805 X
05/02/2022	2022	17087522	A	WEB		3.949 X
06/01/2022	2022	18250029	A	WEB		3.568 X
07/01/2022	2022	19383937	A	WEB		3.480 X
08/01/2022	2022	19383937	A	WEB		0 X
09/01/2022	2022	21660562	A	WEB		6.987 X
10/03/2022	2022	22725995	A	WEB		3.270 X

11/01/2022	2022	23587497	A	WEB	2.644	X
12/01/2022	2022	24651315	A	WEB	3.265	X

**YTD Meter Amounts:		Year	Amount
		2019	6.009
		2020	64.929
		2021	52.826
		2022	35.972

*UTM location was derived from PLSS - see Help

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

12/14/22 6:42 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer


Transaction Summary

APPRO Application to Appropriate

Transaction Number: 605873 **Transaction Desc:** CP 01416 **File Date:** 09/17/2014

Primary Status: PMT Permit
Secondary Status: APR Approved
Person Assigned: *****
Agent: ATKINS ENGINEERING ASSOC, INC.
Contact: RICHARD C, CIBAK
Applicant: PIPER ENERGY, LLC
Contact: CHARLES R. BRIGGS

Events

	Date	Type	Description	Comment	Processed By
	09/17/2014	APP	Application Received	*	*****
	10/02/2014	NFP	Notice for Publication		*****
	10/28/2014	AOP	Affidavit of Publication rev		*****
	10/29/2015	PUC	PBU/PCW Approval		*****
	10/29/2015	FIN	Final Action on application		*****
	04/14/2017	QAT	Quality Assurance Completed	SQ2	*****
	04/24/2017	QAT	Quality Assurance Completed	IMAGE	*****
	04/20/2020	ARW	WRAB Main File Rm Arch Sect	CP 01416 Archived	*****

Water Right Information

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
CP 01416	0	150	150 COM	COMMERCIAL

**Point of Diversion

CP 01416 POD1	668436	3594361	
---------------	--------	---------	---

**Place of Use

Q	Q	Q	Q															
256	64	16	4	Sec	Tw	Rng	Acres	Diversion	Consumptive	Use	Priority	Status	Other	Loc	Desc			
							0	150	150 COM	08/17/2014	PMT	NO PLACE OF			USE GIVEN			

Remarks

"APPLICATION IS BEING MADE TO DRILL A NEW WELL AND APPROPRIATE UP TO 150.0 ACRE-FEET PER ANNUM FOR COMMERCIAL WATER SALES USES."

"ATTACHED TO THIS APPLICATION IS COPY OF A NEW MEXICO STATE LAND OFFICE WATER EASEMENT NO. WR-715, AMENDMENT #1. SAID EASEMENT AMENDMENT INCLUDES AUTHORIZATION TO DRILL ADDITIONAL WELLS IN LOT 4 OF SEC 18, T-21-S, R-37-E, N.M.P.M."

Conditions

- 5C A totalizing meter shall be installed before the first branch of the discharge line form the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading shall be submitted to the District Supervisor for each calendar year on or before the 10th day of January of the following year.
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- Q The State Engineer retains jurisdiction over this permit.
-

Action of the State Engineer

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved

Action Date: 10/29/2015

PCW Due Date: 10/31/2017

PBU Due Date: 10/31/2019

State Engineer:

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12/15/22 11:05 AM

TRANSACTION
SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00472 POD2	4	4	2	23	21S	36E	666480	3593391* 
Driller License: 137		Driller Company:				ROBERTS, GRADY			
Driller Name:									
Drill Start Date: 12/31/1940		Drill Finish Date:				12/31/1940		Plug Date:	
Log File Date:		PCW Rev Date:						Source: Shallow	
Pump Type: TURBIN		Pipe Discharge Size:				3		Estimated Yield: 50 GPM	
Casing Size: 7.00		Depth Well:				200 feet		Depth Water: 140 feet	

Meter Number:	18209	Meter Make:	KAMSTRUP
Meter Serial Number:	21461035	Meter Multiplier:	1.0000
Number of Dials:	9	Meter Type:	Diversion
Unit of Measure:	Gallons	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
10/01/2019	2019	110641	A	RPT		0
11/04/2019	2019	112988	A	RPT		0.007
01/07/2020	2019	12424220	A	RPT		37.782
03/09/2020	2020	15468689	A	RPT		9.343
11/02/2020	2020	30188800	A	RPT		45.174
12/01/2020	2020	34781613	A	RPT		14.095
01/05/2021	2020	37397007	A	WEB		8.026 X
02/01/2021	2021	39175730	A	WEB		5.459 X
03/01/2021	2021	41256694	A	RPT		6.386
04/01/2021	2021	0	A	RPT		0
04/01/2021	2021	43284650	A	RPT		6.224
05/03/2021	2021	2777027	A	RPT	Initial Meter Reading	8.522
06/01/2021	2021	5166141	A	WEB		7.332 X
08/02/2021	2021	9114310	A	WEB		12.116 X
09/01/2021	2021	11248821	A	WEB		6.551 X
10/01/2021	2021	13162891	A	WEB		5.874 X
11/01/2021	2021	15298073	A	WEB		6.553 X
12/01/2021	2021	17424354	A	WEB		6.525 X
01/03/2022	2021	19606400	A	WEB		6.696 X
02/01/2022	2022	21438496	A	WEB		5.622 X
03/01/2022	2022	23343624	A	WEB		5.847 X
03/31/2022	2022	25324876	A	WEB		6.080 X
05/02/2022	2022	28135752	A	WEB		8.626 X
06/01/2022	2022	30352138	A	WEB		6.802 X
07/01/2022	2022	32510100	A	WEB		6.623 X

08/01/2022	2022	32510100	A	WEB	0 X
09/01/2022	2022	36550109	A	WEB	12.398 X
10/03/2022	2022	38554268	A	WEB	6.151 X
11/01/2022	2022	40897563	A	WEB	7.191 X

**YTD Meter Amounts:		Year	Amount
		2019	37.789
		2020	76.638
		2021	78.238
		2022	65.340

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
20C52	CP 01850 POD1	3	3	4	18	21S	37E	669023	3594266 
<hr/>									
Driller License:	1753	Driller Company:				VANGUARD WATER WELLS			
Driller Name:	FRIESSEN, JACOBOIEL.NER								
Drill Start Date:	12/11/2020	Drill Finish Date:				12/11/2020		Plug Date:	
Log File Date:	12/23/2020	PCW Rev Date:						Source:	Shallow
Pump Type:		Pipe Discharge Size:						Estimated Yield:	20 GPM
Casing Size:	5.00	Depth Well:				200 feet		Depth Water:	110 feet
<hr/>									
Water Bearing Stratifications:					Top	Bottom	Description		
					90	198	Sandstone/Gravel/Conglomerate		
<hr/>									
Casing Perforations:					Top	Bottom			
					180	200			

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
	CP 00664			2	23	21S	36E	666179	3593687*				
<hr/>													
Driller License:	208	Driller Company:				VAN NOY, W.L.							
Driller Name:	VAN NOY, W.L.												
Drill Start Date:	05/18/1984	Drill Finish Date:				05/25/1984				Plug Date:			
Log File Date:	06/12/1984	PCW Rev Date:								Source:		Shallow	
Pump Type:		Pipe Discharge Size:								Estimated Yield:			
Casing Size:	6.63	Depth Well:				185 feet				Depth Water:		150 feet	
<hr/>													
Water Bearing Stratifications:					Top	Bottom	Description						
					0	8	Other/Unknown						
					8	100	Sandstone/Gravel/Conglomerate						
					100	150	Sandstone/Gravel/Conglomerate						
					150	181	Sandstone/Gravel/Conglomerate						
					181	185	Other/Unknown						
<hr/>													
Casing Perforations:					Top	Bottom							
					165	185							
<hr/>													

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

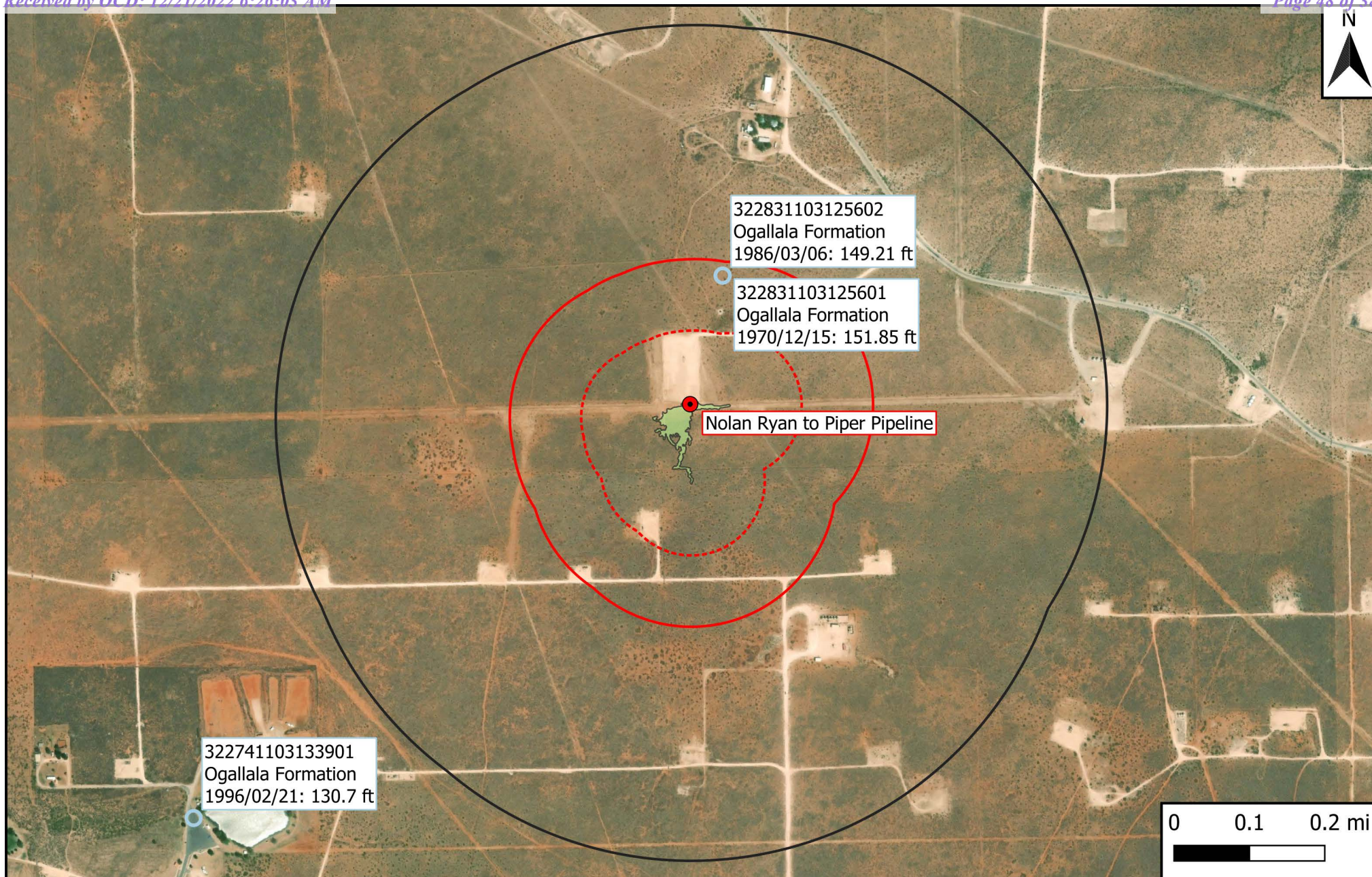
		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
	CP 00882			2	23	21S	36E	666179	3593687*		
<hr/>											
Driller License:	571	Driller Company:				"GLASSPOOLE, GEORGE ""BILL"" W.E "					
Driller Name:	GLASSPOOLE, GEORGE W.										
<hr/>											
Drill Start Date:	10/06/1999	Drill Finish Date:				11/04/1999		Plug Date:			
Log File Date:	12/17/1999	PCW Rev Date:						Source:		Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:		125 GPM	
Casing Size:	5.50	Depth Well:				195 feet		Depth Water:		142 feet	
<hr/>											
Water Bearing Stratifications:				Top	Bottom	Description					
				142	195	Sandstone/Gravel/Conglomerate					
<hr/>											
Casing Perforations:				Top	Bottom						
				155	195						
<hr/>											

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



Legend

- Site Location
- Affected Area
- Well - USGS
- 500-Ft Radius
- 1,000-Ft Radius
- 0.5-Mi Radius

Figure 5

USGS Well Proximity Map
 Goodnight Midstream Permian, LLC
 Nolan Ryan to Piper Pipeline
 GPS: 32.472935, -103.216814
 Lea County



Drafted: bja

Checked: jwl

Date: 12/15/22



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Agency code = usgs

site_no list =

- 322831103125601

Minimum number of levels = 1

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USGS 322831103125601 21S.36E.13.41223

Lea County, New Mexico

Latitude 32°28'31", Longitude 103°12'56" NAD27

Land-surface elevation 3,557 feet above NAVD88

The depth of the well is 200 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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[Reselect period](#)

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
			72019								
1967-10-10		D	72019	150.88			1	Z			A
1968-03-19		D	72019	150.97			1	Z			A
1970-12-15		D	72019	151.85			P	Z			A

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

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Search Results -- 1 sites found

Agency code = usqs

```
site_no list =
```

- 322831103125602

Minimum number of levels = 1

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USGS 322831103125602 21S.36E.13.412232

Lea County, New Mexico

Latitude 32°28'31", Longitude 103°12'56" NAD27

Land-surface elevation 3,557 feet above NAVD88

The depth of the well is 185 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) 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
			72019								
1967-10-10		D	72019	147.44			1	Z			A
1970-12-15		D	72019	147.81			1	Z			A
1981-03-09		D	72019	149.29			1	Z			A
1986-03-06		D	72019	149.21			1	Z			A

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

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0.32 0.28 nadww01

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

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Appendix B

Field Data



Sample Log

Date: 8/15/22

Project: Nolan Ryan to Piper Pipeline

Project Number: 16453 Latitude: 32.472935 Longitude: -103.216814

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 1 @ 3'	-	8.0 2552	
FL 1 @ 4'	-	8.0 2552	
FL 2 @ 4'	-	8.0 2552	
FL 3 @ 4'	-	8.0 2552	
WW1	-	1.4 112	
EW1	-	2.4 444	
NW1	-	1.4 112	
EW2	-	1.4 112	
SW1	-	1.4 112	
WW2	-	1.4 112	
FL 4 @ 4'	-	6.0 H.S. 6356	
FL 5 @ 2'	-	1.4 112	
FL 6 @ 4'	-	5.8 H.S. 5892	
FL 7 @ 4'	-	5.8 H.S. 5892	
FL 8 @ 4'	-	6.0 H.S. 6356	
FL 9 @ 4'	-	5.0 H.S. 4332	
FL 10 @ 4'	-	6.2 H.S. 6352	
FL 11 @ 4'	-	6.0 H.S. 6356	
EW3	-	1.4 112	
WW3	-	1.6 128	
FL 12 @ 4'	-	5.2 H.S. 4684	
FL 13 @ 4'	-	5.0 H.S. 4332	
FL 14 @ 4'	-	4.6 H.S. 3688	
FL 15 @ 4'	-	8.0 2552	
FL 16 @ 4'	-	2.0 1076	
SW2	-	1.0 >128	
EW4	-	1.6 128	
WW4	-	1.0 >128	
WW5	-	2.0 180	
FL 17 @ 4'	-	5.0 880	
FL 18 @ 4'	-	7.8 2360	
FL 19 @ 4'	-	5.4 1020	
FL 20 @ 4'	-	5.2 948	
FL 21 @ 4'	-	5.2 H.S. 4,684	
FL 22 @ 4'	-	8.0 2552	
FL 23 @ 4'	-	5.0 H.S. 4332	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas

NW 1
EW 11
SW 11



Sample Log

Date: _____

Project: Nolan Ryan to Piper Pipeline

Project Number: 16453 Latitude: 32.472935 Longitude: -103.216814

Sample ID	PID/Odor	Chloride Conc.	GPS
FL24@4'	-	8.0 2552	
SW3	-	1.4 7128	
FL25@4'	-	4.0 588	
WWEWS	-	2.6 280	
- - -	-	8-22-22	- - -
FL26@4'	-	3.2 416	✓
FL27@4'	-	3.0 372	✓
FL28@4'	-	2.8 336	✓
FL29@4'	-	7.4 2160	✓
FL30@4'	-	3.0 372	✓
SW4 x	-	5.4 1052	★
SW5 x	-	2.0 280	✓
EW6 x	-	7.4 2160	★
EW7 x	-	6.0 1308	★
SW4 SW6 x	-	8.6 22512	★
NW2	-	5.0 880	★
NW3	-	3.4 444	✓
NW6	-	5.2 948	★
FL31@4'	-	3.8 536	✓
FL32@4'	-	3.4 536	✓
FL33@4'	-	3.2 400	✓
FL34@4'	-	4.6 756	✓
FL35@4'	-	3.4 444	✓
EW6B	-	5.0	★
EW7B	-	3.4 444	✓
EW6C-1	-	4.2 640	★
EW6C-2	-	6.8 1652	★
NW7	-	9.0 22512	★
EW8	-	5.4 1020	★
EW9	-	8.6 22512	★
- - -	-	8-23-22	- - -
FL36@4'	-	5.4 1012	
FL37@4'	-	6.4 1432	
FL38@4'	-	4.8 808	
FL39@4'	-	3.6 484	
FL40@4'	-	7.0 1760	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Nolan Ryan to Piper Pipeline

Project Number: 16453 Latitude: 32.472935 Longitude: -103.216814

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 41 @ 4'		7.8 2540 2340	
FL 42 @ 4'		8.0 2528	
FL 43 @ 4'		8.0 2528	
FL 44 @ 4'		8.0 2528	
FL 45 @ 4'		8.0 2528	
SW 4			
SW 6			
EW 6			
EW 7			
WW 6			
WW 7			
EW 8			
EW 9			
8/24/22			
FL 46 @ 4'		4.4 6986	✓
FL 47 @ 4'		10.0 7.4 10888	✓
FL 48 @ 4'		10.0 7.2 10052	✓
FL 49 @ 4'		9.8 6.8 8604	✓
FL 50 @ 4'		10 7.4 10888	✓
FL 51 @ 4'		5.2 5.0 948	✓
FL 52 @ 4'		8.8 5.0 4332	✓
FL 53 @ 4'		9.0 5.4 5060	✓
FL 54 @ 4'		9.4 6.6 7972	✓
FL 55 @ 4'		2.2 212	✓
FL 56 @ 4'		3.4 444	✓
FL 57 @ 4'		8.2 4.6 3688	✓
FL 58 @ 4'		9.4 6.4 7392	✓
FL 59 @ 4'		7.8 10.0 2360	✓
FL 60 @ 4'		9.4 6.2 6852	✓
FL 61 @ 4'		6.6 1544	✓
FL 62 @ 4'		8.8 8.0 4332	✓
FL 63 @ 4'		6.2 1348	✓
FL 64 @ 4'		7.8 2360	✓
FL 65 @ 4'		9.0 8.6 5464	✓
FL 66 @ 4'		9.6 7.8 12864	✓
FL 67 @ 4'		9.4 6.6 7972	✓
FL 68 @ 4'		9.4 6.2 6852	✓

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

SW3
WW5
EW5
NW1

Sample Log

Project:

Molca Ryan to Piper

Date:

8/25/22

Project Number:

16453

Latitude:

32.472935

Longitude:

-103.216814

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 69 @ 4'		9.4 72952 6.4 7392	✓
FL 70 @ 4'		9.4 72952 6.4 7392	✓
FL 71 @ 4'		7.8 2360	✓
FL 72 @ 4'		2.8 316	✓
FL 73 @ 4'		8.0 2552	✓
FL 74 @ 4'		3.2 400	✓
FL 75 @ 4'		2.6 280	✓
FL 76 @ 4'		8.0 9.2 6.4 7392	✓
FL 77 @ 4'		9.2 5.8 5892	✓
FL 78 @ 4'		8.8 5.2 4684	✓
FL 79 @ 4'		8.4 4.6 3688	✓
FL 80 @ 4'		9.2 6.0 6356	✓
FL 81 @ 4'		9.0 5.4 5060	✓
FL 82 @ 4'		8.8 5.0 4332	✓
FL 83 @ 4'		3.0 356	✓
FL 84 @ 4'		8.6 5.0 4332	✓
— 8/26/22			
SW4		2.8 336	
WW6		2.6 296	
EW6		2.0 200	
NW2		2.2 232	
(NW)		1.0 40	
SW2		7.0 1	
EW1		3.4 466	
EW8		3.6 504	
FL 85 @ 4'	—	5.4 H.S. 5060	
FL 86 @ 4'	—	4.2 656	
FL 87 @ 4'	—	6.4 H.S. 7392	
FL 88 @ 4'	—	8.0 H.S. 14,052	
FL 89 @ 4'	—	4.0 604	
FL 90 @ 4'	—	7.0 H.S. 9296	
FL 91 @ 4'	—	4.8 H.S. 4000	
FL 92 @ 4'	—	7.4 2160	
FL 93 @ 4'	—	6.0 1260	
FL 94 @ 4'	—	5.4 H.S. 5060	
FL 95 @ 4'	—	5.8 1096	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Lobo 285 Frac Tank Overflow

Project Number: 16409 Latitude: 32.122023 Longitude: -104.07183

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 1016"		3.0 372	
FL 206"		3.0 372	
FL 306"		2.4 264	
FL 406"		3.4 456	
FL 506"			
FL 96 @ 4'	—	5.0 H.S. 4332	
FL 97 @ 4'	—	7.2 1896	
FL 98 @ 4'	—	8.0 2552	
FL 99 @ 4'	—	4.8 H.S. 4000	
FL 100 @ 4'	—	3.6 488	
FL 101 @ 4'	—	3.8 536	
FL 102 @ 4'	—	7.2 1896	
FL 103 @ 4'	—	6.6 1544	
FL 104 @ 4'	—	4.4 696	
FL 105 @ 4'	—	4.0 588	
FL 106 @ 4'	—	4.2 640	
FL 107 @ 4'	—	8.0 2552	
FL 108 @ 4'	—	8.0 2552	
FL 109 @ 4'	—	8.0 2552	
FL 110 @ 4'	—	6.4 1444	
FL 111 @ 4'	—	6.0 1260	
FL 112 @ 4'	—	7.2 1896	
FL 113 @ 4'	—	6.6 1544	
FL 114 @ 4'	—	8.0 2552	
FL 115 @ 4'	—	8.0 880	
FL 116 @ 4'	—	5.4 1020	
FL 117 @ 4'	—	5.2 948	
FL 118 @ 4'	—	6.0 1260	
FL 119 @ 4'	—	7.2 1896	
FL 120 @ 4'	—	7.4 2036	
FL 121 @ 4'	—	8.0 2552	
FL 122 @ 4'	—	6.2 1348	
FL 123 @ 4'	—	5.8 1176	
FL 124 @ 4'	—	5.6 1096	
FL 125 @ 4'	—	5.4 1020	
FL 126 @ 4'	—	5.2 948	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Lobo 285 Frac Tank Overflow

Project Number: 16409 Latitude: 32.122023 Longitude: -104.07183

Sample ID	PID/Odor	Chloride Conc.	GPS
EW9	-	2.4 244	
FL 127 @ 2'	-	7.0 1772	
FL 127 @ 3'	-	2.2 180	
NW3	-	2.2 180	
SW5	-	2.4 244	
FL 128 @ 3'	-	6.8 1652	
FL 128 @ 4'	-	6.0 5.4 1020	
FL 129 @ 4'	-	7.0 1772	
FL 130 @ 4'	-	7.2 1896	
FL 131 @ 4'	-	6.8 1652	
NW4	-	2.0 3.2 392	
SW6	-	2.0 152	
FL 132 @ 4'	-	8.0 2528	
FL 133 @ 4'	-	7.2 2340	
NW5	-	2.6 280	
SW7	-	2.4 244	
NW6	-	2.2 212	
SW8	-	2.8 316	
FL 134 @ 4'	-	7.0 H.S. 9296	
FL 135 @ 4'	-	5.2 H.S. 4684	
FL 136 @ 4'	-	2.8 316	
FL 137 @ 4'	-	7.6 2086 1884 2188	
FL 138 @ 4'	-	8.0 2512	
FL 139 @ 4'	-	6.6 1544	
FL 140 @ 4'	-	8.0 2528	
FL 141 @ 4'	-	7.0 H.S. 9296	
FL 142 @ 4'	-	5.2 H.S. 4684	
FL 143 @ 4'	-	2.8 316	
FL 144 @ 4'	-	4.2 H.S. 2864	
FL 145 @ 4'	-	8.0 H.S. 14052	
FL 146 @ 4'	-	7.6 2086 1884 2188	
FL 147 @ 4'	-	8.0 2512	
FL 148 @ 4'	-	6.2 1348	
FL 149 @ 4'	-	4.0 H.S. 2628	
FL 150 @ 4'	-	8.0 2528	
FL 151 @ 4'	-	6.0 H.S. 8904	

Sample Point = SP #1 @ ## etc

Test Trench = 1 T #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas

FL 152 @ 4'

6.0 H.S. 5904

FL 153 @ 4'

8.0 2528



Sample Log

Date: _____

Project: Nolan Ryan to Piper Pipeline

Project Number: 16453

Latitude: 32.472935

Longitude: -103.216814

Sample ID	PID/Odor	Chloride Conc.	GPS
EW10	-	2.6 280	
NW9	-	3.0 356	
FL 154 @ 4'	-	8.0 2852	
FL 155 @ 4'	-	4.2 H.S. 2864	
FL 156 @ 4'	-	3.0 H.S. 1636	
FL 157 @ 4'	-	6.8 1652	
FL 158 @ 4'	-	4.2 H.S. 2864	
NW7	-	3.2 400	
FL 159 @ 4'	-	6.0 H.S. 5904	
FL 88 @ 4.5'	-	5.6 H.S. 5056	
FL 90 @ 4.5'	-	5.4 H.S. 4676	
FL 160 @ 4'	-	5.0 880	
FL 161 @ 4'	-	5.2 948	
FL 162 @ 4'	-	5.0 H.S. 3992	
FL 163 @ 4'	-	7.6 2188	
FL 164 @ 4'	-	6.0 H.S. 5904	
FL 165 @ 4'	-	5.8 H.S. 5464	
FL 166 @ 4'	-	6.8 H.S. 8024	
FL 167 @ 4'	-	6.4 H.S. 6384	
FL 168 @ 4'	-	6.4 H.S. 6384	
FL 169 @ 4'	-	7.0 H.S. 8672	
FL 170 @ 4'	-	6.0 H.S. 5904	
FL 171 @ 4'	-	5.8 H.S. 5464	
FL 172 @ 4'	-	6.2 H.S. 6376	
FL 173 @ 4'	-	6.2 H.S. 6376	
FL 174 @ 4'	-	6.8 H.S. 8024	
FL 175 @ 4'	-	6.0 H.S. 5904	
FL 176 @ 4'	-	6.2 H.S. 6376	
NW8	-	2.4 244	
NW9	-	2.6 280	
EW11	-	2.4 244	
EW12	-	3.0 356	
SW9	-	2.4 244	
SW10	-	2.4 244	
NW10	-	2.6 280	
NW11	-	2.6 316	

1556.04 5.3.4

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

 NW10
 NW12
 FL 141
 146

 NW11 FL 181
 NW13 FL 182
 EW13
 FL 177
 FL 178
 FL 179
 FL 180

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Nolan Ryan to Piper Pipeline

Project Number: 16453 Latitude: 32.472935 Longitude: -103.216814

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Appendix C

Photographic Log

Photographic Log

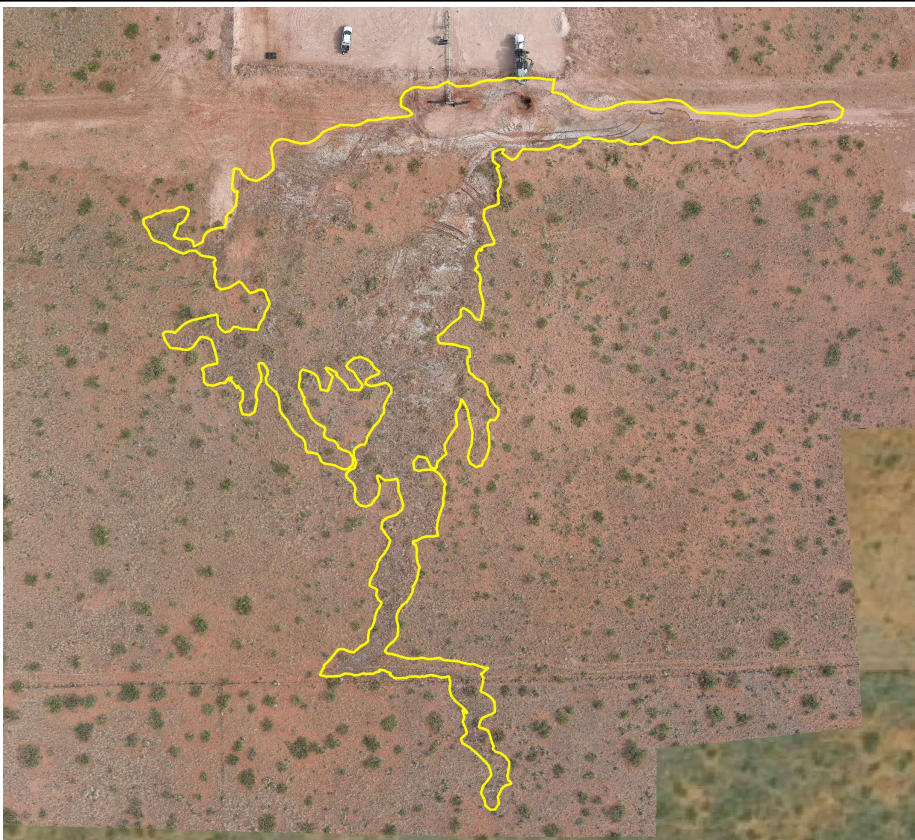

Photo Number: 1	 An aerial photograph showing a large, irregularly shaped area of reddish-brown soil and sparse green vegetation. A yellow line outlines a specific region within this area, which appears to be the release site. The surrounding terrain is flat and arid.
Photo Direction: Top-Down	
Date: 8/11/2022	
Photo Description: Composited aerial view of the release georeferenced and overlayed on ESRI satellite imagery. The affected area is outlined in yellow.	

Photo Number: 2	 A ground-level photograph of an excavated area. The foreground shows a large, flat, reddish-brown soil surface with some darker, possibly wet or disturbed, patches. In the background, there is a line of trees and a clear blue sky with some clouds. A compass rose in the top left corner indicates North (N), South (S), East (E), and West (W). A text overlay in the top right corner provides the date and time: "Sep 14, 2022 at 11:55:57 AM", the coordinates "+32.472687,-103.217545", the bearing "154° SE", and the location "Lea County".
Photo Direction: South-Southeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 3	 <p>Sep 14, 2022 at 11:56:07 AM +32.472687,-103.217545 91° E Lea County</p>
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 4	 <p>Sep 14, 2022 at 12:00:20 PM +32.472742,-103.217064 176° S Lea County</p>
Photo Direction: South	
Photo Description: View of the excavated area.	

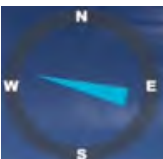

Photographic Log

Photo Number: 5	 <p>Sep 14, 2022 at 12:00:25 PM +32.472742,-103.217064 234° SW Lea County</p>
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photo Number: 6	 <p>Sep 14, 2022 at 12:05:50 PM +32.472253,-103.217391 42° NE Lea County</p>
Photo Direction: Northeast	
Photo Description: View of the excavated area.	



Photographic Log

Photo Number: 7	 <div>Sep 14, 2022 at 12:05:53 PM +32.472253,-103.217391 98° E Lea County</div> 
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 8	 <div>Sep 14, 2022 at 12:08:27 PM +32.471697,-103.216817 284° W Lea County</div> 
Photo Direction: West-Northwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 9	 <p>Sep 14, 2022 at 12:09:06 PM +32.471864,-103.216950 355° N Lea County</p> 
Photo Direction: North	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>Sep 14, 2022 at 12:11:22 PM +32.472690,-103.216775 259° W Lea County</p> 
Photo Direction: West	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 11	 <div>Sep 14, 2022 at 12:14:25 PM +32.472943,-103.216549 226° SW Lea County</div>
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photo Number: 12	 <div>Oct 3, 2022 at 12:47:44 PM +32.472868,-103.217420 116° SE Lea County</div>
Photo Direction: East-Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log



Appendix D

Laboratory Analytical Reports



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

August 17, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 08/10/22 15:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	16453	Sample Received By:	Celey D. Keene
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: V 1 @ 2' - R (H223624-01)

BTX 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	08/15/2022	ND	2.03	101	2.00	0.364	
Toluene*	0.093	0.050	08/15/2022	ND	1.96	98.1	2.00	0.122	
Ethylbenzene*	0.069	0.050	08/15/2022	ND	1.93	96.7	2.00	0.831	
Total Xylenes*	0.172	0.150	08/15/2022	ND	6.00	100	6.00	1.75	
Total BTX	0.334	0.300	08/15/2022	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19400	16.0	08/16/2022	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2022	ND	214	107	200	1.67	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	208	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	16453	Sample Received By:	Celey D. Keene
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: V 2 @ 3' - R (H223624-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.143	0.050	08/15/2022	ND	2.03	101	2.00	0.364	
Toluene*	0.653	0.050	08/15/2022	ND	1.96	98.1	2.00	0.122	
Ethylbenzene*	0.058	0.050	08/15/2022	ND	1.93	96.7	2.00	0.831	
Total Xylenes*	0.230	0.150	08/15/2022	ND	6.00	100	6.00	1.75	
Total BTEX	1.08	0.300	08/15/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19400	16.0	08/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2022	ND	214	107	200	1.67	
DRO >C10-C28*	16.7	10.0	08/13/2022	ND	208	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					

Surrogate: 1-Chlorooctane 96.1 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/10/2022
 Reported: 08/17/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/10/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: V 3 @ 4' - R (H223624-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.241	0.050	08/15/2022	ND	2.03	101	2.00	0.364		
Toluene*	0.277	0.050	08/15/2022	ND	1.96	98.1	2.00	0.122		
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.7	2.00	0.831		
Total Xylenes*	<0.150	0.150	08/15/2022	ND	6.00	100	6.00	1.75		
Total BTEX	0.518	0.300	08/15/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13700	16.0	08/16/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2022	ND	214	107	200	1.67	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	208	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 43-149

Surrogate: 1-Chlorooctadecane 99.3 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	16453	Sample Received By:	Celey D. Keene
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: V 4 @ 2' - R (H223624-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.066	0.050	08/15/2022	ND	2.03	101	2.00	0.364	
Toluene*	0.426	0.050	08/15/2022	ND	1.96	98.1	2.00	0.122	
Ethylbenzene*	0.176	0.050	08/15/2022	ND	1.93	96.7	2.00	0.831	
Total Xylenes*	0.501	0.150	08/15/2022	ND	6.00	100	6.00	1.75	
Total BTEX	1.17	0.300	08/15/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16500	16.0	08/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2022	ND	214	107	200	1.67	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	208	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 43-149

Surrogate: 1-Chlorooctadecane 99.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	16453	Sample Received By:	Celey D. Keene
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: V 5 @ 2' - R (H223624-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.201	0.050	08/15/2022	ND	2.03	101	2.00	0.364	
Toluene*	0.333	0.050	08/15/2022	ND	1.96	98.1	2.00	0.122	
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.7	2.00	0.831	
Total Xylenes*	<0.150	0.150	08/15/2022	ND	6.00	100	6.00	1.75	
Total BTEX	0.534	0.300	08/15/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23200	16.0	08/16/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 80.6 % 43-149

Surrogate: 1-Chlorooctadecane 80.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/17/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	** (See Notes)
Project Number:	16453	Sample Received By:	Celey D. Keene
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: V 6 @ 3' - R (H223624-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/15/2022	ND	2.03	101	2.00	0.364		
Toluene*	0.077	0.050	08/15/2022	ND	1.96	98.1	2.00	0.122		
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.7	2.00	0.831		
Total Xylenes*	<0.150	0.150	08/15/2022	ND	6.00	100	6.00	1.75		
Total BTEx	<0.300	0.300	08/15/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15400	16.0	08/16/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	213	106	200	2.49	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	240	120	200	9.69	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 43-149

Surrogate: 1-Chlorooctadecane 85.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Joel Lowry				P.O. #:																					
Address: 2617 West Marland				Company: Goodnight																					
City: Hobbs State: NM Zip: 88240				Attn:																					
Phone #: (575) 264-9884 Fax #:				Address:																					
Project #: 16453 Project Owner: Goodnight				City:																					
Project Name: Nolan Ryan to Piper Pipeline				State: Zip:				Chloride TPH (8015M) BTEX (8021B)																	
Project Location: Rural Lea Co, NM				Phone #:																					
Sampler Name: Miguel Ramirez				Fax #:																					
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING																	
Lab I.D.		Sample I.D.																							
H223024																									
1		VI @ 2'-R		G		X		X		8/10/22		X													
2		V2 @ 3'-R		↓		↓		↓		↓		↓													
3		V3 @ 4'-R		↓		↓		↓		↓		↓													
4		V4 @ 2'-R		↓		↓		↓		↓		↓													
5		V5 @ 2'-R		↓		↓		↓		↓		↓													
6		V6 @ 3'-R		↓		↓		↓		↓		↓													
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Relinquished By: [Signature]				Date: 8/10/22 Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
Relinquished By:				Time: 15:15				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
				Date:				REMARKS: Standard																	
				Time:																					
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																	
Sampler - UPS - Bus - Other:				Cool Intact				(Initials)																	
15.4°/14.8°C				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Csk				#113 -0.6°C													



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

August 23, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 08/18/22 14:54.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 13 @ 4' (H223794-01)

BTX 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	08/20/2022	ND	1.90	95.1	2.00	7.37	
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76	
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22	
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94	
Total BTX	<0.300	0.300	08/20/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4440	16.0	08/22/2022	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	206	103	200	4.47	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	230	115	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 126 % 45.3-161

Surrogate: 1-Chlorooctadecane 155 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 14 @ 4' (H223794-02)

BTX 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	08/20/2022	ND	1.90	95.1	2.00	7.37	
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76	
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22	
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94	
Total BTX	<0.300	0.300	08/20/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	08/22/2022	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	206	103	200	4.47	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	230	115	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 129 % 45.3-161

Surrogate: 1-Chlorooctadecane 158 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 15 @ 4' (H223794-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2022	ND	1.90	95.1	2.00	7.37		
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94		
Total BTEX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	08/22/2022	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	206	103	200	4.47	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	230	115	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 119 % 45.3-161

Surrogate: 1-Chlorooctadecane 148 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 16 @ 4' (H223794-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2022	ND	1.90	95.1	2.00	7.37		
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94		
Total BTEx	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/22/2022	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	206	103	200	4.47	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	230	115	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 126 % 45.3-161

Surrogate: 1-Chlorooctadecane 154 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 2 (H223794-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2022	ND	1.90	95.1	2.00	7.37		
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94		
Total BTEx	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/22/2022	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	206	103	200	4.47	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	230	115	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 140 % 45.3-161

Surrogate: 1-Chlorooctadecane 171 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 4 (H223794-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2022	ND	1.90	95.1	2.00	7.37		
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94		
Total BTEx	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/22/2022	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	206	103	200	4.47	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	230	115	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 134 % 45.3-161

Surrogate: 1-Chlorooctadecane 162 % 46.3-178

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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 4 (H223794-07)

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	08/20/2022	ND	1.90	95.1	2.00	7.37		
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94		
Total BTEx	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	206	103	200	4.47	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	230	115	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 146 % 45.3-161

Surrogate: 1-Chlorooctadecane 178 % 46.3-178

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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 17 @ 4' (H223794-08)

BTX 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	08/20/2022	ND	1.90	95.1	2.00	7.37	
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76	
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22	
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94	
Total BTX	<0.300	0.300	08/20/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	08/22/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	206	103	200	4.47	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	230	115	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 132 % 45.3-161

Surrogate: 1-Chlorooctadecane 160 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 18 @ 4' (H223794-09)

BTX 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	08/20/2022	ND	1.90	95.1	2.00	7.37		
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94		
Total BTX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	206	103	200	4.47	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	230	115	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 120 % 45.3-161

Surrogate: 1-Chlorooctadecane 147 % 46.3-178

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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/18/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 19 @ 4' (H223794-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2022	ND	1.90	95.1	2.00	7.37		
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94		
Total BTEx	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1500	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	206	103	200	4.47	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	230	115	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 128 % 45.3-161

Surrogate: 1-Chlorooctadecane 157 % 46.3-178

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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 1 @ 4' (H223794-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2022	ND	1.90	95.1	2.00	7.37		
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94		
Total BTEx	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 126 % 45.3-161

Surrogate: 1-Chlorooctadecane 137 % 46.3-178

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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 2 @ 4' (H223794-12)

BTX 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	08/20/2022	ND	1.90	95.1	2.00	7.37		
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94		
Total BTX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4200	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 122 % 45.3-161

Surrogate: 1-Chlorooctadecane 131 % 46.3-178

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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 3 @ 4' (H223794-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2022	ND	1.90	95.1	2.00	7.37		
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94		
Total BTEx	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 121 % 45.3-161

Surrogate: 1-Chlorooctadecane 130 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 Fax To:

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 1 (H223794-14)

BTX 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	08/20/2022	ND	1.90	95.1	2.00	7.37		
Toluene*	<0.050	0.050	08/20/2022	ND	1.84	91.9	2.00	7.76		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.80	90.2	2.00	8.22		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.56	92.7	6.00	8.94		
Total BTX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/19/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/19/2022	ND					

Surrogate: 1-Chlorooctane 136 % 45.3-161

Surrogate: 1-Chlorooctadecane 147 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 1 (H223794-15)

BTX 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	08/20/2022	ND	1.95	97.4	2.00	1.32	QR-03
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17	QR-03
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46	
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53	
Total BTX	<0.300	0.300	08/20/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 144 % 45.3-161

Surrogate: 1-Chlorooctadecane 155 % 46.3-178

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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 1 (H223794-16)

BTX 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	08/20/2022	ND	1.95	97.4	2.00	1.32		
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53		
Total BTX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 137 % 45.3-161

Surrogate: 1-Chlorooctadecane 149 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 2 (H223794-17)

BTX 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	08/20/2022	ND	1.95	97.4	2.00	1.32		
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53		
Total BTX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/22/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 131 % 45.3-161

Surrogate: 1-Chlorooctadecane 142 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 2 (H223794-18)

BTX 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	08/20/2022	ND	1.95	97.4	2.00	1.32	
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17	
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46	
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53	
Total BTX	<0.300	0.300	08/20/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 140 % 45.3-161

Surrogate: 1-Chlorooctadecane 152 % 46.3-178

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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 1 (H223794-19)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2022	ND	1.95	97.4	2.00	1.32		
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53		
Total BTEx	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 138 % 45.3-161

Surrogate: 1-Chlorooctadecane 149 % 46.3-178

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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 4 @ 4' (H223794-20)

BTX 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	08/20/2022	ND	1.95	97.4	2.00	1.32		
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53		
Total BTX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10600	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 136 % 45.3-161

Surrogate: 1-Chlorooctadecane 146 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 5 @ 2' (H223794-21)

BTX 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	08/20/2022	ND	1.95	97.4	2.00	1.32		
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53		
Total BTX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 126 % 45.3-161

Surrogate: 1-Chlorooctadecane 136 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 6 @ 4' (H223794-22)

BTX 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	08/20/2022	ND	1.95	97.4	2.00	1.32		
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53		
Total BTX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 132 % 45.3-161

Surrogate: 1-Chlorooctadecane 142 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 7 @ 4' (H223794-23)

BTX 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	08/20/2022	ND	1.95	97.4	2.00	1.32		
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53		
Total BTX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 130 % 45.3-161

Surrogate: 1-Chlorooctadecane 143 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 8 @ 4' (H223794-24)

BTX 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	08/20/2022	ND	1.95	97.4	2.00	1.32		
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53		
Total BTX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10900	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 126 % 45.3-161

Surrogate: 1-Chlorooctadecane 139 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/16/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 9 @ 4' (H223794-25)

BTX 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	08/20/2022	ND	1.95	97.4	2.00	1.32		
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53		
Total BTX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10800	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 124 % 45.3-161

Surrogate: 1-Chlorooctadecane 137 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 10 @ 4' (H223794-26)

BTX 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	08/20/2022	ND	1.95	97.4	2.00	1.32		
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53		
Total BTX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6880	16.0	08/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 129 % 45.3-161

Surrogate: 1-Chlorooctadecane 139 % 46.3-178

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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 11 @ 4' (H223794-27)

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	08/20/2022	ND	1.95	97.4	2.00	1.32		
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53		
Total BTEX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7600	16.0	08/22/2022	ND	432	108	400	3.77	QM-07	

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	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 126 % 45.3-161

Surrogate: 1-Chlorooctadecane 136 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 12 @ 4' (H223794-28)

BTX 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	08/20/2022	ND	1.95	97.4	2.00	1.32		
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53		
Total BTX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	08/22/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 130 % 45.3-161

Surrogate: 1-Chlorooctadecane 142 % 46.3-178

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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 3 (H223794-29)

BTX 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	08/20/2022	ND	1.95	97.4	2.00	1.32	
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17	
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46	
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53	
Total BTX	<0.300	0.300	08/20/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/22/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 138 % 45.3-161

Surrogate: 1-Chlorooctadecane 148 % 46.3-178

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Analytical Results For:

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

Received: 08/18/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/17/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 3 (H223794-30)

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	08/20/2022	ND	1.95	97.4	2.00	1.32		
Toluene*	<0.050	0.050	08/20/2022	ND	1.93	96.7	2.00	1.17		
Ethylbenzene*	<0.050	0.050	08/20/2022	ND	1.85	92.3	2.00	1.46		
Total Xylenes*	<0.150	0.150	08/20/2022	ND	5.68	94.7	6.00	2.53		
Total BTEX	<0.300	0.300	08/20/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/22/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2022	ND	219	110	200	0.0333	
DRO >C10-C28*	<10.0	10.0	08/20/2022	ND	220	110	200	0.348	
EXT DRO >C28-C36	<10.0	10.0	08/20/2022	ND					

Surrogate: 1-Chlorooctane 135 % 45.3-161

Surrogate: 1-Chlorooctadecane 145 % 46.3-178

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
A-01	CCV failed high. All associated samples ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 $\frac{1}{2}$

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Joel Lowry Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 16453 Project Owner: Goodnight Project Name: Nolan Ryan to Piper Pipeline Project Location: Rusk Co., NM Sampler Name: Miguel Ramirez						BILL TO P.O. #: Company: Goodnight Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST												
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	G/RAB OR (C)OMP.	# CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV. ACID/BASE: ICE / COOL OTHER:	SAMPLING DATE TIME	Chloride	TPH (8015M)	BTEX (8021B)										
	4223794																			
	11	FL1@4'	C	1	X	X	8/15/22	X	X	X										
	12	FL2@4'																		
	13	FL3@4'																		
	14	NWI																		
	15	EWI																		
	16	NWI					8/16/22													
	17	EW2																		
	18	NWI																		
	19	SWI																		
	20	FL4@4'																		
<small>EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable notice. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by clients, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																				
Relinquished By: [Signature] Date: 8-15-22 Time: 1635 Delivered By: (Circle One) u-2 C-O-u-2 sampler - UPS - Bus - Other: 5-u-2 #113						Received By: [Signature] Date: 8-15-22 Time: 1454 Sample Condition Cool Impact Yes No X Yes No CHECKED BY: [Initials] SR						Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: REMARKS: Standard turn around! Please email copy of COC and results to pm@etechenv.com.								



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

2/2

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Joel Lowry

Address: 2617 West Marland

City: Hobbs

State: NM

Zip: 88240

Phone #: (575) 264-9884

Fax #:

Project #: 16953

Project Owner: Goodnight

Project Name: Nolan Ryan to Piper pipe line

Project Location: Rural Lea Co, NM

Sampler Name: Miguel Ramirez

BILL TO

P.O. #:

Company: Goodnight

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Chloride

TPH (8015M)

BTEX (8021B)

FOR LAB USE ONLY

Lab I.D. H223794

Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

MATRIX

PRESERV.

SAMPLING

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

21	FL 5 @ 2'	C	1	X	X	8/16/20		X	X	X
22	FL 6 @ 4'									
23	FL 7 @ 4'									
24	FL 8 @ 4'									
25	FL 9 @ 4'									
26	FL 10 @ 4'						8/17/20			
27	FL 11 @ 4'									
28	FL 12 @ 4'									
29	EW 3									
30	WW 3									

Relinquished By: [Signature]

Date: 8-18-20

Time: 1451

Received By: [Signature]

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool

Intact

Yes

No

CHECKED BY:

(Initials)

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

REMARKS:

Add'l Phone #:

Add'l Fax #:

Please email copy of COC and results to pm@etechenv.com.

Case Note:

Liability and Damages:

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Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool

Intact

Yes

No

CHECKED BY:

(Initials)

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

REMARKS:

Add'l Phone #:

Add'l Fax #:

Please email copy of COC and results to pm@etechenv.com.



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

August 23, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 08/19/22 14:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/19/2022	Sampling Date:	08/18/2022
Reported:	08/23/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 20 @ 4' (H223822-01)

BTX 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	08/22/2022	ND	2.05	102	2.00	9.79	
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0	
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0	
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1	
Total BTX	<0.300	0.300	08/22/2022	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/22/2022	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 79.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.1 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/19/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 21 @ 4' (H223822-02)

BTX 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	08/22/2022	ND	2.05	102	2.00	9.79		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1		
Total BTX	<0.300	0.300	08/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	08/23/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2022	ND	240	120	200	9.40	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	215	107	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.6 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/19/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 22 @ 4' (H223822-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2022	ND	2.05	102	2.00	9.79		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1		
Total BTEx	<0.300	0.300	08/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2030	16.0	08/23/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2022	ND	170	85.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	183	91.6	200	21.3	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/19/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 23 @ 4' (H223822-04)

BTX 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	08/22/2022	ND	2.05	102	2.00	9.79		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1		
Total BTX	<0.300	0.300	08/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4040	16.0	08/23/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2022	ND	170	85.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	183	91.6	200	21.3	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/19/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 24 @ 4' (H223822-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2022	ND	2.05	102	2.00	9.79		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1		
Total BTEx	<0.300	0.300	08/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/23/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2022	ND	170	85.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	183	91.6	200	21.3	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/19/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 25 @ 4' (H223822-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2022	ND	2.05	102	2.00	9.79		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1		
Total BTEX	<0.300	0.300	08/22/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	08/23/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2022	ND	170	85.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	183	91.6	200	21.3	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 80.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.3 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/19/2022	Sampling Date:	08/19/2022
Reported:	08/23/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: EW5 (H223822-07)

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	08/22/2022	ND	2.05	102	2.00	9.79		
Toluene*	0.050	0.050	08/22/2022	ND	1.99	99.6	2.00	10.0		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.98	98.9	2.00	11.0		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.07	101	6.00	10.1		
Total BTEx	<0.300	0.300	08/22/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/23/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2022	ND	170	85.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	183	91.6	200	21.3	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 93.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/19/2022	Sampling Date:	08/19/2022
Reported:	08/23/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: WW5 (H223822-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2022	ND	2.01	100	2.00	5.76		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.3	2.00	4.77		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.94	97.0	2.00	5.57		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.02	100	6.00	5.45		
Total BTEx	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/23/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2022	ND	170	85.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	183	91.6	200	21.3	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/19/2022
 Reported: 08/23/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW3 (H223822-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2022	ND	2.01	100	2.00	5.76		
Toluene*	<0.050	0.050	08/22/2022	ND	1.99	99.3	2.00	4.77		
Ethylbenzene*	<0.050	0.050	08/22/2022	ND	1.94	97.0	2.00	5.57		
Total Xylenes*	<0.150	0.150	08/22/2022	ND	6.02	100	6.00	5.45		
Total BTEx	<0.300	0.300	08/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/23/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2022	ND	170	85.1	200	20.4	
DRO >C10-C28*	<10.0	10.0	08/22/2022	ND	183	91.6	200	21.3	
EXT DRO >C28-C36	<10.0	10.0	08/22/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

August 29, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 08/23/22 15:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/23/2022	Sampling Date:	08/22/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 26 @ 4' (H223859-01)

BTX 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	08/24/2022	ND	2.01	101	2.00	1.66	
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.1	2.00	1.86	
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.92	96.1	2.00	1.97	
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.95	99.1	6.00	2.45	
Total BTX	<0.300	0.300	08/24/2022	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/24/2022	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	196	98.0	200	0.680	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	183	91.3	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 74.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 27 @ 4' (H223859-02)

BTX 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	08/24/2022	ND	2.01	101	2.00	1.66		
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.1	2.00	1.86		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.92	96.1	2.00	1.97		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.95	99.1	6.00	2.45		
Total BTX	<0.300	0.300	08/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	196	98.0	200	0.680	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	183	91.3	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 77.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 28 @ 4' (H223859-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	2.01	101	2.00	1.66		
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.1	2.00	1.86		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.92	96.1	2.00	1.97		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.95	99.1	6.00	2.45		
Total BTEX	<0.300	0.300	08/24/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/24/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	196	98.0	200	0.680	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	183	91.3	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 29 @ 4' (H223859-04)

BTX 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	08/24/2022	ND	2.01	101	2.00	1.66		
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.1	2.00	1.86		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.92	96.1	2.00	1.97		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.95	99.1	6.00	2.45		
Total BTX	<0.300	0.300	08/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/23/2022	Sampling Date:	08/22/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 30 @ 4' (H223859-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	2.01	101	2.00	1.66		
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.1	2.00	1.86		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.92	96.1	2.00	1.97		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.95	99.1	6.00	2.45		
Total BTEx	<0.300	0.300	08/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/23/2022	Sampling Date:	08/22/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 31 @ 4' (H223859-06)

BTX 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	08/24/2022	ND	2.01	101	2.00	1.66		
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.1	2.00	1.86		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.92	96.1	2.00	1.97		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.95	99.1	6.00	2.45		
Total BTX	<0.300	0.300	08/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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

Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 32 @ 4' (H223859-07)

BTX 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	08/24/2022	ND	2.01	101	2.00	1.66		
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.1	2.00	1.86		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.92	96.1	2.00	1.97		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.95	99.1	6.00	2.45		
Total BTX	<0.300	0.300	08/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 33 @ 4' (H223859-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	2.01	101	2.00	1.66		
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.1	2.00	1.86		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.92	96.1	2.00	1.97		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.95	99.1	6.00	2.45		
Total BTEx	<0.300	0.300	08/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 97.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 34 @ 4' (H223859-09)

BTX 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	08/24/2022	ND	2.01	101	2.00	1.66		
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.1	2.00	1.86		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.92	96.1	2.00	1.97		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.95	99.1	6.00	2.45		
Total BTX	<0.300	0.300	08/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/22/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 35 @ 4' (H223859-10)

BTX 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	08/24/2022	ND	2.01	101	2.00	1.66	
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.1	2.00	1.86	
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.92	96.1	2.00	1.97	
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.95	99.1	6.00	2.45	
Total BTX	<0.300	0.300	08/24/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/24/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 96.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/23/2022	Sampling Date:	08/23/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 36 @ 4' (H223859-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	2.01	101	2.00	1.66		
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.1	2.00	1.86		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.92	96.1	2.00	1.97		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.95	99.1	6.00	2.45		
Total BTEx	<0.300	0.300	08/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.2 % 46.3-178

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Analytical Results For:

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

Received:	08/23/2022	Sampling Date:	08/23/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 37 @ 4' (H223859-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	2.01	101	2.00	1.66		
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.1	2.00	1.86		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.92	96.1	2.00	1.97		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.95	99.1	6.00	2.45		
Total BTEX	<0.300	0.300	08/24/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1820	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 81.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 38 @ 4' (H223859-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	2.01	101	2.00	1.66		
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.1	2.00	1.86		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.92	96.1	2.00	1.97		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.95	99.1	6.00	2.45		
Total BTEx	<0.300	0.300	08/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 83.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/23/2022	Sampling Date:	08/23/2022
Reported:	08/29/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 39 @ 4' (H223859-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	2.02	101	2.00	4.32		
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	97.9	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.93	96.3	2.00	3.86		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.97	99.6	6.00	3.27		
Total BTEx	<0.300	0.300	08/24/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 40 @ 4' (H223859-15)

BTX 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	08/24/2022	ND	2.02	101	2.00	4.32	
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	97.9	2.00	4.42	
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.93	96.3	2.00	3.86	
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.97	99.6	6.00	3.27	
Total BTX	<0.300	0.300	08/24/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	08/24/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 41 @ 4' (H223859-16)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	<0.050	0.050	08/24/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.62	93.7	6.00	1.90		
Total BTEX	<0.300	0.300	08/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 42 @ 4' (H223859-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	<0.050	0.050	08/24/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.62	93.7	6.00	1.90		
Total BTEX	<0.300	0.300	08/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9200	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 43 @ 4' (H223859-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	<0.050	0.050	08/24/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.62	93.7	6.00	1.90		
Total BTEX	<0.300	0.300	08/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 44 @ 4' (H223859-19)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	<0.050	0.050	08/24/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.62	93.7	6.00	1.90		
Total BTEx	<0.300	0.300	08/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11600	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	207	104	200	0.290	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	228	114	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2022
 Reported: 08/29/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/23/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 45 @ 4' (H223859-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2022	ND	1.88	93.9	2.00	3.10		
Toluene*	0.056	0.050	08/24/2022	ND	1.86	93.1	2.00	2.28		
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.80	90.1	2.00	2.25		
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.62	93.7	6.00	1.90		
Total BTEX	<0.300	0.300	08/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	08/24/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2022	ND	195	97.5	200	1.63	
DRO >C10-C28*	<10.0	10.0	08/24/2022	ND	201	100	200	1.35	
EXT DRO >C28-C36	10.1	10.0	08/24/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

August 31, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 08/26/22 14:56.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/26/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 46 @ 4' (H223945-01)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36	
Total BTEx	<0.300	0.300	08/30/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	08/30/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.6 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 47 @ 4' (H223945-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87		
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36		
Total BTEx	<0.300	0.300	08/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14600	16.0	08/30/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 99.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 48 @ 4' (H223945-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87		
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36		
Total BTEx	<0.300	0.300	08/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14200	16.0	08/30/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 49 @ 4' (H223945-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87		
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36		
Total BTEx	<0.300	0.300	08/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9060	16.0	08/30/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.4 % 46.3-178

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 JOEL LOWRY
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 Fax To:

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 50 @ 4' (H223945-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87		
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36		
Total BTEx	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11400	16.0	08/30/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.3 % 46.3-178

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 Fax To:

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 51 @ 4' (H223945-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87		
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36		
Total BTEx	<0.300	0.300	08/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	08/30/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.2 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 HOBBS NM, 88240
 Fax To:

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 52 @ 4' (H223945-07)

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	08/30/2022	ND	2.09	104	2.00	6.87		
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36		
Total BTEx	<0.300	0.300	08/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	08/30/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 98.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 HOBBS NM, 88240
 Fax To:

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 53 @ 4' (H223945-08)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36	
Total BTEx	<0.300	0.300	08/30/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4840	16.0	08/30/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 88.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.9 % 46.3-178

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/26/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 54 @ 4' (H223945-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87		
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36		
Total BTEx	<0.300	0.300	08/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11000	16.0	08/30/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 84.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.8 % 46.3-178

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 55 @ 4' (H223945-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87		
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36		
Total BTEx	<0.300	0.300	08/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/30/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 56 @ 4' (H223945-11)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36	
Total BTEx	<0.300	0.300	08/30/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	08/30/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 57 @ 4' (H223945-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87		
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36		
Total BTEx	<0.300	0.300	08/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3640	16.0	08/30/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 83.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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 2617 W MARLAND
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Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 58 @ 4' (H223945-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87		
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36		
Total BTEx	<0.300	0.300	08/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8530	16.0	08/30/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	212	106	200	2.82	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	218	109	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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 2617 W MARLAND
 HOBBS NM, 88240
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Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 59 @ 4' (H223945-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2022	ND	2.09	104	2.00	6.87		
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36		
Total BTEx	<0.300	0.300	08/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	08/30/2022	ND	416	104	400	7.41	QM-07	

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 60 @ 4' (H223945-15)

BTX 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	08/30/2022	ND	2.09	104	2.00	6.87	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36	
Total BTX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	08/30/2022	ND	416	104	400	7.41	

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.5 % 46.3-178

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 61 @ 4' (H223945-16)

BTX 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	08/30/2022	ND	2.09	104	2.00	6.87	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	103	2.00	6.86	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.92	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.37	106	6.00	8.36	
Total BTX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	08/30/2022	ND	416	104	400	7.41	

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.7 % 46.3-178

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 2617 W MARLAND
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Received:	08/26/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 62 @ 4' (H223945-17)

BTX 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	08/30/2022	ND	1.95	97.7	2.00	4.64	
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88	
Total BTX	<0.300	0.300	08/30/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	08/30/2022	ND	416	104	400	7.41		

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 115 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 63 @ 4' (H223945-18)

BTX 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	08/30/2022	ND	1.95	97.7	2.00	4.64	
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88	
Total BTX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	08/30/2022	ND	416	104	400	7.41		

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 64 @ 4' (H223945-19)

BTX 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	08/30/2022	ND	1.95	97.7	2.00	4.64	
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	3.30	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.08	104	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.45	107	6.00	1.88	
Total BTX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	08/30/2022	ND	416	104	400	7.41		

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.2 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 65 @ 4' (H223945-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2022	ND	2.08	104	2.00	7.42		
Toluene*	<0.050	0.050	08/29/2022	ND	2.21	110	2.00	6.92		
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.20	110	2.00	6.00		
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.80	113	6.00	7.30		
Total BTEx	<0.300	0.300	08/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	08/30/2022	ND	416	104	400	7.41		

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.7 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 66 @ 4' (H223945-21)

BTX 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	08/29/2022	ND	2.08	104	2.00	7.42	
Toluene*	<0.050	0.050	08/29/2022	ND	2.21	110	2.00	6.92	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.20	110	2.00	6.00	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.80	113	6.00	7.30	
Total BTX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13800	16.0	08/30/2022	ND	416	104	400	7.41	

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 81.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/26/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 67 @ 4' (H223945-22)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2022	ND	2.08	104	2.00	7.42		
Toluene*	<0.050	0.050	08/29/2022	ND	2.21	110	2.00	6.92		
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.20	110	2.00	6.00		
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.80	113	6.00	7.30		
Total BTEX	<0.300	0.300	08/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9000	16.0	08/30/2022	ND	416	104	400	7.41		

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 112 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 68 @ 4' (H223945-23)

BTX 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	08/29/2022	ND	2.08	104	2.00	7.42	
Toluene*	<0.050	0.050	08/29/2022	ND	2.21	110	2.00	6.92	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.20	110	2.00	6.00	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.80	113	6.00	7.30	
Total BTX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11000	16.0	08/30/2022	ND	416	104	400	7.41		

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 95.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 69 @ 4' (H223945-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2022	ND	2.08	104	2.00	7.42		
Toluene*	<0.050	0.050	08/29/2022	ND	2.21	110	2.00	6.92		
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.20	110	2.00	6.00		
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.80	113	6.00	7.30		
Total BTEx	<0.300	0.300	08/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11800	16.0	08/30/2022	ND	416	104	400	7.41		

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Analytical Results For:

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

Received:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 70 @ 4' (H223945-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2022	ND	2.08	104	2.00	7.42		
Toluene*	<0.050	0.050	08/29/2022	ND	2.21	110	2.00	6.92		
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.20	110	2.00	6.00		
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.80	113	6.00	7.30		
Total BTEx	<0.300	0.300	08/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9800	16.0	08/30/2022	ND	416	104	400	7.41		

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.4 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 71 @ 4' (H223945-26)

BTX 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	08/30/2022	ND	2.08	104	2.00	7.42	
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30	
Total BTX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	08/30/2022	ND	416	104	400	7.41	

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 72 @ 4' (H223945-27)

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	08/30/2022	ND	2.08	104	2.00	7.42	
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30	
Total BTEx	<0.300	0.300	08/30/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/30/2022	ND	416	104	400	7.41		

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	08/29/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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

Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 73 @ 4' (H223945-28)

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	08/30/2022	ND	2.08	104	2.00	7.42		
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30		
Total BTEX	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	08/30/2022	ND	416	104	400	7.41		

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	08/30/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.3 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 74 @ 4' (H223945-29)

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	08/30/2022	ND	2.08	104	2.00	7.42	
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30	
Total BTEX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/30/2022	ND	416	104	400	7.41	

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	08/30/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.4 % 46.3-178

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Analytical Results For:

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

Received:	08/26/2022	Sampling Date:	08/25/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 75 @ 4' (H223945-30)

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	08/30/2022	ND	2.08	104	2.00	7.42		
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30		
Total BTEx	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/30/2022	ND	416	104	400	7.41		

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	08/30/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 78.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.6 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 76 @ 4' (H223945-31)

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	08/30/2022	ND	2.08	104	2.00	7.42	
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30	
Total BTEx	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	08/30/2022	ND	416	104	400	7.41	

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	08/30/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 77 @ 4' (H223945-32)

BTX 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	08/30/2022	ND	2.08	104	2.00	7.42	
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30	
Total BTX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	08/30/2022	ND	416	104	400	7.41	

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	08/30/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 78 @ 4' (H223945-33)

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	08/30/2022	ND	2.08	104	2.00	7.42	
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30	
Total BTEX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	08/30/2022	ND	416	104	400	7.41		

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	08/30/2022	ND	210	105	200	3.03	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	207	103	200	0.989	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 79 @ 4' (H223945-34)

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	08/30/2022	ND	2.08	104	2.00	7.42		
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30		
Total BTEx	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	08/30/2022	ND	432	108	400	0.00	QM-07	

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	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 73.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.7 % 46.3-178

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Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 80 @ 4' (H223945-35)

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	08/30/2022	ND	2.08	104	2.00	7.42		
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30		
Total BTEx	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	08/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 73.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 81 @ 4' (H223945-36)

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	08/30/2022	ND	2.08	104	2.00	7.42		
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30		
Total BTEx	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	08/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 71.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 82 @ 4' (H223945-37)

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	08/30/2022	ND	2.08	104	2.00	7.42		
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30		
Total BTEx	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	08/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 70.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 83 @ 4' (H223945-38)

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	08/30/2022	ND	2.08	104	2.00	7.42		
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30		
Total BTEx	<0.300	0.300	08/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	08/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2022
 Reported: 08/31/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 84 @ 4' (H223945-39)

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	08/30/2022	ND	2.08	104	2.00	7.42		
Toluene*	<0.050	0.050	08/30/2022	ND	2.21	110	2.00	6.92		
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.20	110	2.00	6.00		
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.80	113	6.00	7.30		
Total BTEx	<0.300	0.300	08/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	08/30/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2022	ND	191	95.3	200	3.83	
DRO >C10-C28*	<10.0	10.0	08/30/2022	ND	175	87.4	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/30/2022	ND					

Surrogate: 1-Chlorooctane 83.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.						BILL TO						ANALYSIS REQUEST											
Project Manager: Joel Lowry						P.O. #:						<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 West Marland						Company: Goodnight Midstream																	
City: Hobbs State: NM Zip: 88240						Attn:																	
Phone #: (575) 264-9884 Fax #:						Address:																	
Project #: 16453 Project Owner: Goodnight Midstream						City:																	
Project Name: Nolan Ryan to Piper Pipeline						State: Zip:																	
Project Location: Rural Lea County, NM						Phone #:																	
Sampler Name: Matthew Grieco						Fax #:																	
FOR LAB USE ONLY				(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING											
Lab I.D.		Sample I.D.						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME											
H223945																							
1		FL 46 @ 4'		C 1				X		X		8/24/22		X	X	X							
2		FL 47 @ 4'		C 1				X		X		8/24/22		X	X	X							
3		FL 48 @ 4'		C 1				X		X		8/24/22		X	X	X							
4		FL 49 @ 4'		C 1				X		X		8/24/22		X	X	X							
5		FL 50 @ 4'		C 1				X		X		8/24/22		X	X	X							
6		FL 51 @ 4'		C 1				X		X		8/24/22		X	X	X							
7		FL 52 @ 4'		C 1				X		X		8/24/22		X	X	X							
8		FL 53 @ 4'		C 1				X		X		8/24/22		X	X	X							
9		FL 54 @ 4'		C 1				X		X		8/24/22		X	X	X							
10		FL 55 @ 4'		C 1				X		X		8/24/22		X	X	X							

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Relinquished By: [Signature]	Date: 8-26-22	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 1456		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
REMARKS:				

Relinquished By:	Date:	Received By:

Delivered By: (Circle One)	-7.9e	#113	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	-8.5e		Cool Intact	(Initials)
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	[Signature]

Please email results to pm@etechenv.com

FORM-006
Revision 1.0

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



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 02, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 08/29/22 15:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/29/2022	Sampling Date:	08/26/2022
Reported:	09/02/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: NW 2 (H223963-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2022	ND	2.10	105	2.00	10.7		
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6		
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2		
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74		
Total BTEX	<0.300	0.300	08/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/31/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	200	99.8	200	1.92	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	213	106	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/29/2022	Sampling Date:	08/26/2022
Reported:	09/02/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: EW 6 (H223963-02)

BTX 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	08/31/2022	ND	2.10	105	2.00	10.7	
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74	
Total BTX	<0.300	0.300	08/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/31/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 94.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.7 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/29/2022	Sampling Date:	08/26/2022
Reported:	09/02/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: EW 7 (H223963-03)

BTX 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	08/31/2022	ND	2.10	105	2.00	10.7	
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74	
Total BTX	<0.300	0.300	08/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/31/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.9 % 46.3-178

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Analytical Results For:

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

Received: 08/29/2022
 Reported: 09/02/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 8 (H223963-04)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2022	ND	2.10	105	2.00	10.7	
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74	
Total BTEx	<0.300	0.300	08/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/31/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 90.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.0 % 46.3-178

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Analytical Results For:

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

Received:	08/29/2022	Sampling Date:	08/26/2022
Reported:	09/02/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: WW 6 (H223963-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2022	ND	2.10	105	2.00	10.7		
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6		
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2		
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74		
Total BTEx	<0.300	0.300	08/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.1 % 46.3-178

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Analytical Results For:

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

Received: 08/29/2022
 Reported: 09/02/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 7 (H223963-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2022	ND	2.10	105	2.00	10.7		
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6		
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2		
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74		
Total BTEx	<0.300	0.300	08/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Analytical Results For:

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

Received:	08/29/2022	Sampling Date:	08/26/2022
Reported:	09/02/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: WW 8 (H223963-07)

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	08/31/2022	ND	2.10	105	2.00	10.7		
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6		
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2		
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74		
Total BTEx	<0.300	0.300	08/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 99.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Analytical Results For:

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

Received: 08/29/2022
 Reported: 09/02/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 4 (H223963-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2022	ND	2.10	105	2.00	10.7		
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6		
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2		
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74		
Total BTEx	<0.300	0.300	08/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.9 % 46.3-178

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Analytical Results For:

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

Received: 08/29/2022
 Reported: 09/02/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 85 @ 4' (H223963-09)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2022	ND	2.10	105	2.00	10.7	
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74	
Total BTEx	<0.300	0.300	08/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.0 % 46.3-178

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Analytical Results For:

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

Received: 08/29/2022
 Reported: 09/02/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 86 @ 4' (H223963-10)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2022	ND	2.10	105	2.00	10.7	
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74	
Total BTEx	<0.300	0.300	08/31/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.6 % 46.3-178

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Analytical Results For:

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

Received: 08/29/2022
 Reported: 09/02/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 87 @ 4' (H223963-11)

BTX 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	08/31/2022	ND	2.10	105	2.00	10.7	
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74	
Total BTX	<0.300	0.300	08/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/29/2022
 Reported: 09/02/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 88 @ 4' (H223963-12)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2022	ND	2.10	105	2.00	10.7	
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74	
Total BTEx	<0.300	0.300	08/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	23000	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.1 % 46.3-178

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Analytical Results For:

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

Received: 08/29/2022
 Reported: 09/02/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 89 @ 4' (H223963-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2022	ND	2.10	105	2.00	10.7		
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6		
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2		
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74		
Total BTEx	<0.300	0.300	08/31/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 87.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.2 % 46.3-178

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Analytical Results For:

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

Received: 08/29/2022
 Reported: 09/02/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 90 @ 4' (H223963-14)

BTX 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	08/31/2022	ND	2.10	105	2.00	10.7	
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6	
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74	
Total BTX	<0.300	0.300	08/31/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26400	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.0 % 46.3-178

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Analytical Results For:

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

Received: 08/29/2022
 Reported: 09/02/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 91 @ 4' (H223963-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2022	ND	2.10	105	2.00	10.7		
Toluene*	<0.050	0.050	08/31/2022	ND	2.06	103	2.00	10.6		
Ethylbenzene*	<0.050	0.050	08/31/2022	ND	2.02	101	2.00	10.2		
Total Xylenes*	<0.150	0.150	08/31/2022	ND	6.26	104	6.00	8.74		
Total BTEx	<0.300	0.300	08/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.0 % 46.3-178

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Analytical Results For:

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

Received: 08/29/2022
 Reported: 09/02/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 92 @ 4' (H223963-16)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.10	105	2.00	10.7	
Toluene*	<0.050	0.050	09/01/2022	ND	2.06	103	2.00	10.6	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.02	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.26	104	6.00	8.74	
Total BTEx	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 90.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/29/2022	Sampling Date:	08/29/2022
Reported:	09/02/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 93 @ 4' (H223963-17)

BTX 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	09/01/2022	ND	2.07	103	2.00	13.0	
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7	
Total BTX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.2 % 46.3-178

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Analytical Results For:

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

Received: 08/29/2022
 Reported: 09/02/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 94 @ 4' (H223963-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0		
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7		
Total BTEx	<0.300	0.300	09/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6560	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.2 % 46.3-178

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Analytical Results For:

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

Received:	08/29/2022	Sampling Date:	08/29/2022
Reported:	09/02/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 95 @ 4' (H223963-19)

BTX 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	09/01/2022	ND	2.07	103	2.00	13.0	
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7	
Total BTX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	211	105	200	0.00284	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	215	108	200	0.566	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/29/2022	Sampling Date:	08/29/2022
Reported:	09/02/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 96 @ 4' (H223963-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0		
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7		
Total BTEx	<0.300	0.300	09/01/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7760	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	190	94.9	200	1.09	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	182	90.9	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

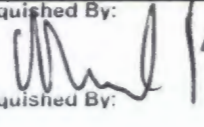
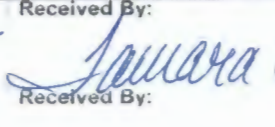


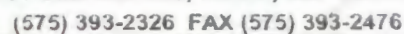
ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Joel Lowry Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 16453 Project Owner: Goodnight Project Name: Nolan Ryan to Piper Pipeline Project Location: Rural Lea Co, NM Sampler Name: Miguel Ramirez				BILL TO				ANALYSIS REQUEST												
P.O. #: Company: Goodnight Attn: Address: City: State: Zip: Phone #: Fax #:				Chloride TPH (8015M) BTEX (8021B)																
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV. ACID/BASE: ICE / COOL OTHER:	SAMPLING DATE TIME													
	1	NW2			X	X	8/26/22	X	X	X										
	2	EW6																		
	3	EW7																		
	4	EW8																		
	5	NW6																		
	6	NW7																		
	7	NW8																		
	8	SW4																		
	9	FL 85 @ 4'					8/29/22													
	10	FL 86 @ 4'																		
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.</small>																				
Relinquished By: 				Date: 8-29-22 Time: 1525				Received By: 				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:				Add'l Phone #: Add'l Fax #:				
Relinquished By:				Date: Time:				Received By:												
Delivered By: (Circle One) <u>-11.0°C</u> C-0.6°C				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) <u>JS</u>				Please email copy of COC and results to pm@etechenv.com.								
Sampler - UPS - Bus - Other: <u>-11.6°C #13</u>				Yes <input type="checkbox"/> No <input type="checkbox"/>																



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Joel Lowry Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 16453 Project Owner: Goodnight Project Name: Nolan Ryan to Piper Pipeline Project Location: Rural Lea Co., NM Sampler Name: Miguel Ramirez				BILL TO				ANALYSIS REQUEST										
				P.O. #:		Chloride	TPH (8015M)	BTEX (8021B)										
				Company: Goodnight														
				Attn:														
				Address:														
				City:														
				State:														
				Zip:														
				Phone #:														
				Fax #:														

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	G/RAB OR (C)OMP.	# CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	PRESERV. ACID/BASE: ICE / COOL OTHER :	SAMPLING DATE TIME	Chloride	TPH (8015M)	BTEX (8021B)								
H223963	FL 87 @ 4'	C	X	X	X	8/29/22	X	X	X									
11	FL 88 @ 4'																	
12	FL 89 @ 4'																	
13	FL 90 @ 4'																	
14	FL 91 @ 4'																	
15	FL 92 @ 4'																	
16	FL 93 @ 4'																	
17	FL 94 @ 4'																	
18	FL 95 @ 4'																	
19	FL 96 @ 4'																	
20	FL 97 @ 4'																	

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Relinquished By: [Signature]	Date: 8-29-22	Received By: [Signature]	Time: 1525
Relinquished By:	Date:	Received By:	Time:

Delivered By: (Circle One) -11.0°C C-0.6°C Sample Condition Cool Intact CHECKED BY: JLO
 Sampler - UPS - Bus - Other: (-11.6°C #113)

REMARKS: Phone Result: ☐ Yes ☒ No Add'l Phone #: Fax Result: ☐ Yes ☒ No Add'l Fax #: Please email copy of COC and results to pm@etechenv.com.



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

September 06, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 08/31/22 14:58.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/31/2022	Sampling Date:	08/31/2022
Reported:	09/06/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 97 @ 4' (H224010-01)

BTX 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	09/01/2022	ND	1.69	84.4	2.00	11.4	
Toluene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	9.67	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	10.2	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.28	105	6.00	10.8	
Total BTX	<0.300	0.300	09/01/2022	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	09/06/2022	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	179	89.4	200	10.1	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	180	90.0	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 95.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 98 @ 4' (H224010-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/01/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.92	115	6.00	6.83	
Total BTEx	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	179	89.4	200	10.1	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	180	90.0	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 99 @ 4' (H224010-03)

BTX 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	09/01/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/01/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.92	115	6.00	6.83	
Total BTX	<0.300	0.300	09/01/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	179	89.4	200	10.1	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	180	90.0	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 100 @ 4' (H224010-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2		
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83		
Total BTEx	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	179	89.4	200	10.1	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	180	90.0	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 101 @ 4' (H224010-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2		
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83		
Total BTEx	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	179	89.4	200	10.1	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	180	90.0	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 102 @ 4' (H224010-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTEx	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	09/06/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	179	89.4	200	10.1	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	180	90.0	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 103 @ 4' (H224010-07)

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	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTEx	<0.300	0.300	09/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	179	89.4	200	10.1	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	180	90.0	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 104 @ 4' (H224010-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTEx	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	179	89.4	200	10.1	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	180	90.0	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 105 @ 4' (H224010-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTEx	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	179	89.4	200	10.1	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	180	90.0	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 106 @ 4' (H224010-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTEx	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	179	89.4	200	10.1	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	180	90.0	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 107 @ 4' (H224010-11)

BTX 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	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTX	<0.300	0.300	09/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4280	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2022	ND	179	89.4	200	10.1	
DRO >C10-C28*	<10.0	10.0	09/02/2022	ND	180	90.0	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	09/02/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 108 @ 4' (H224010-12)

BTX 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	09/02/2022	ND	2.02	101	2.00	10.2		
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83		
Total BTX	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 109 @ 4' (H224010-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTEx	<0.300	0.300	09/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	09/06/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 110 @ 4' (H224010-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTEx	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 111 @ 4' (H224010-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTEx	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	09/06/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 112 @ 4' (H224010-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTEX	<0.300	0.300	09/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	09/01/2022	ND	416	104	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Analytical Results For:

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

Received:	08/31/2022	Sampling Date:	08/31/2022
Reported:	09/06/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 113 @ 4' (H224010-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTEx	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	09/01/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 97.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 114 @ 4' (H224010-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTEx	<0.300	0.300	09/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	09/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 115 @ 4' (H224010-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTEx	<0.300	0.300	09/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	09/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 116 @ 4' (H224010-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2		
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83		
Total BTEx	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.6 % 46.3-178

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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 117 @ 4' (H224010-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.02	101	2.00	10.2	
Toluene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.23	111	2.00	6.29	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	6.92	115	6.00	6.83	
Total BTEx	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12400	16.0	09/01/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 99.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 118 @ 4' (H224010-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/02/2022	ND	1.99	99.5	2.00	7.25		
Toluene*	<0.050	0.050	09/02/2022	ND	2.27	113	2.00	2.86		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	2.81		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.03	117	6.00	3.25		
Total BTEx	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	09/01/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 98.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 119 @ 4' (H224010-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/02/2022	ND	1.99	99.5	2.00	7.25		
Toluene*	<0.050	0.050	09/02/2022	ND	2.27	113	2.00	2.86		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	2.81		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.03	117	6.00	3.25		
Total BTEx	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 120 @ 4' (H224010-24)

BTX 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	09/02/2022	ND	1.99	99.5	2.00	7.25	
Toluene*	<0.050	0.050	09/02/2022	ND	2.27	113	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	2.81	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.03	117	6.00	3.25	
Total BTX	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	09/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 121 @ 4' (H224010-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/02/2022	ND	1.99	99.5	2.00	7.25		
Toluene*	<0.050	0.050	09/02/2022	ND	2.27	113	2.00	2.86		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	2.81		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.03	117	6.00	3.25		
Total BTEx	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3800	16.0	09/01/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 99.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 122 @ 4' (H224010-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/02/2022	ND	1.99	99.5	2.00	7.25		
Toluene*	<0.050	0.050	09/02/2022	ND	2.27	113	2.00	2.86		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	2.81		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.03	117	6.00	3.25		
Total BTEx	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/31/2022	Sampling Date:	08/31/2022
Reported:	09/06/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 123 @ 4' (H224010-27)

BTX 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	09/02/2022	ND	1.99	99.5	2.00	7.25	
Toluene*	<0.050	0.050	09/02/2022	ND	2.27	113	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	2.81	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.03	117	6.00	3.25	
Total BTX	<0.300	0.300	09/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 124 @ 4' (H224010-28)

BTX 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	09/02/2022	ND	1.99	99.5	2.00	7.25	
Toluene*	<0.050	0.050	09/02/2022	ND	2.27	113	2.00	2.86	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	2.81	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.03	117	6.00	3.25	
Total BTX	<0.300	0.300	09/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	09/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 125 @ 4' (H224010-29)

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	09/02/2022	ND	1.99	99.5	2.00	7.25		
Toluene*	<0.050	0.050	09/02/2022	ND	2.27	113	2.00	2.86		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	2.81		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.03	117	6.00	3.25		
Total BTEx	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	09/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 97.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/31/2022
 Reported: 09/06/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 08/31/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 126 @ 4' (H224010-30)

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	09/02/2022	ND	1.99	99.5	2.00	7.25		
Toluene*	<0.050	0.050	09/02/2022	ND	2.27	113	2.00	2.86		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.28	114	2.00	2.81		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.03	117	6.00	3.25		
Total BTEx	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	09/01/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2022	ND	194	97.1	200	2.54	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	197	98.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 3

Company Name: Etech Environmental & Safety Solutions				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Joel Lowry				P.O. #:																																					
Address: 2617 W. Marland				Company: Goodnight																																					
City: Hobbs State: NM Zip: 88240				Attn:																																					
Phone #: 575-264-9884 Fax #: -				Address:																																					
Project #: 16453 Project Owner: Goodnight				City:																																					
Project Name: Nolan Ryan to Piper Pipeline				State: Zip:																																					
Project Location: Rural Lea Co, NM				Phone #:																																					
Sampler Name: Miguel Ramirez				Fax #:																																					
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
H224010				C		1						X										X				8/3/22															
1 FL 97 @ 4'																																									
2 FL 98 @ 4'																																									
3 FL 99 @ 4'																																									
4 FL 100 @ 4'																																									
5 FL 101 @ 4'																																									
6 FL 102 @ 4'																																									
7 FL 103 @ 4'																																									
8 FL 104 @ 4'																																									
9 FL 105 @ 4'																																									
10 FL 106 @ 4'																																									
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated causes or otherwise.</p>																																									
Relinquished By: [Signature]				Date: 8-31-22				Received By: [Signature]				Verbal Request: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																									
				Time: 1458								All Results are emailed. Please provide Email address:																													
Relinquished By:				Date:				Received By:				REMARKS:				pm@etechenv.com																									
				Time:																																					
Delivered By: (Circle One)				Observed Temp. °C 6.6				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) [Signature]				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush				Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Observed Temp. °C																	
Sampler - UPS - Bus - Other:				Corrected Temp. °C 6.0												Thermometer ID #113 Correction Factor -0.6°C								Corrected Temp. °C																	



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: Etech Environmental & Safety Solutions Project Manager: Joel Lowry Address: 2617 W. Marland City: Hobbs State: NM Zip: 88240 Phone #: 575-264-9884 Fax #: Project #: 16453 Project Owner: Goodnight Project Name: Nolan Ryan to Piper Pipeline Project Location: Rural Lea Co, NM Sampler Name: Miguel Ramirez				BILL TO P.O. #: Company: Goodnight Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																			
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	Chlorides										
H224010																											
11	FL 107 @ 4'	C	1			X							8/3/20		X	X	X										
12	FL 108 @ 4'																										
13	FL 109 @ 4'																										
14	FL 110 @ 4'																										
15	FL 111 @ 4'																										
16	FL 112 @ 4'																										
17	FL 113 @ 4'																										
18	FL 114 @ 4'																										
19	FL 115 @ 4'																										
20	FL 116 @ 4'																										

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Relinquished By:	Date: 8-31-22	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: 1458		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		PM@etechnv.com
Delivered By: (Circle One)	Observed Temp. °C 6.6	Sample Condition	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C 6.0	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	Bacteria (only) Sample Condition
		CHECKED BY: (Initials) J.O.	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113
			Correction Factor -0.6°C
			Observed Temp. °C
			Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Page 35 of 35

Company Name: Etech Environmental & Safety				BILL TO				ANALYSIS REQUEST																													
Project Manager: Joel Lowry				P.O. #:																																	
Address: 2617 W. Marland				Company: Goodnight																																	
City: Hobbs				Attn:																																	
State: NM Zip: 88240				Address:																																	
Phone #: 575-264-9884				City:																																	
Fax #: -				State: Zip:																																	
Project #: 16453				Phone #:																																	
Project Owner: Goodnight				Fax #:																																	
Project Name: Nohu Ryan to Piper Pipeline																																					
Project Location: Rural Lea Co NM																																					
Sampler Name: Miguel Ramirez																																					
FOR LAB USE ONLY																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																									
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
H224010				C1				Y								X						8/31/22															
21		FL 117 @ 4'																																			
22		FL 118 @ 4'																																			
23		FL 119 @ 4'																																			
24		FL 120 @ 4'																																			
25		FL 121 @ 4'																																			
26		FL 122 @ 4'																																			
27		FL 123 @ 4'																																			
28		FL 124 @ 4'																																			
29		FL 125 @ 4'																																			
30		FL 126 @ 4'																																			
<small>DISCLAIMER NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																																					
Relinquished By: [Signature]				Date: 8-31-22				Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																					
				Time: 1458								All Results are emailed. Please provide Email address:																									
Relinquished By:				Date:				Received By:				REMARKS:																									
				Time:								PM@etechenv.com																									
Delivered By: (Circle One)				Observed Temp. °C 6.6				Sample Condition Cool Intact				CHECKED BY: (Initials) TO				Turnaround Time: Standard Rush <input checked="" type="checkbox"/>				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C																	
Sampler - UPS - Bus - Other:				Corrected Temp. °C 4.0				<input type="checkbox"/> Yes <input type="checkbox"/> No								Thermometer ID #113 Correction Factor -0.6°C				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				Corrected Temp. °C													



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

September 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 09/02/22 11:22.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/07/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 3 (H224041-01)

BTX 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	09/02/2022	ND	2.00	100	2.00	9.28		
Toluene*	<0.050	0.050	09/02/2022	ND	2.35	117	2.00	14.4		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.34	117	2.00	17.2		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.26	121	6.00	17.5		
Total BTX	<0.300	0.300	09/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/06/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2022	ND	204	102	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.1 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/07/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 4 (H224041-02)

BTX 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	09/02/2022	ND	2.00	100	2.00	9.28	
Toluene*	<0.050	0.050	09/02/2022	ND	2.35	117	2.00	14.4	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.34	117	2.00	17.2	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.26	121	6.00	17.5	
Total BTX	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/06/2022	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2022	ND	204	102	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/07/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 9 (H224041-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/02/2022	ND	2.00	100	2.00	9.28		
Toluene*	<0.050	0.050	09/02/2022	ND	2.35	117	2.00	14.4		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.34	117	2.00	17.2		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.26	121	6.00	17.5		
Total BTEx	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/06/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2022	ND	204	102	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/07/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 5 (H224041-04)

BTX 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	09/02/2022	ND	2.00	100	2.00	9.28	
Toluene*	<0.050	0.050	09/02/2022	ND	2.35	117	2.00	14.4	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.34	117	2.00	17.2	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.26	121	6.00	17.5	
Total BTX	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/06/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2022	ND	204	102	200	1.22	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.4 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/07/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 6 (H224041-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.00	100	2.00	9.28	
Toluene*	<0.050	0.050	09/02/2022	ND	2.35	117	2.00	14.4	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.34	117	2.00	17.2	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.26	121	6.00	17.5	
Total BTEx	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/06/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2022	ND	194	97.1	200	1.44	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	215	107	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 95.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/07/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 127 @ 3' (H224041-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.00	100	2.00	9.28	
Toluene*	<0.050	0.050	09/02/2022	ND	2.35	117	2.00	14.4	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.34	117	2.00	17.2	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.26	121	6.00	17.5	
Total BTEx	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/06/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2022	ND	194	97.1	200	1.44	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	215	107	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/07/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 128 @ 4' (H224041-07)

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	09/02/2022	ND	2.00	100	2.00	9.28		
Toluene*	<0.050	0.050	09/02/2022	ND	2.35	117	2.00	14.4		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.34	117	2.00	17.2		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.26	121	6.00	17.5		
Total BTEx	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	09/06/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2022	ND	194	97.1	200	1.44	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	215	107	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/07/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 129 @ 4' (H224041-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.00	100	2.00	9.28	
Toluene*	<0.050	0.050	09/02/2022	ND	2.35	117	2.00	14.4	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.34	117	2.00	17.2	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.26	121	6.00	17.5	
Total BTEx	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	09/06/2022	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2022	ND	194	97.1	200	1.44	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	215	107	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/07/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 130 @ 4' (H224041-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/02/2022	ND	2.00	100	2.00	9.28		
Toluene*	<0.050	0.050	09/02/2022	ND	2.35	117	2.00	14.4		
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.34	117	2.00	17.2		
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.26	121	6.00	17.5		
Total BTEX	<0.300	0.300	09/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	09/06/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2022	ND	194	97.1	200	1.44	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	215	107	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/02/2022
 Reported: 09/07/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 131 @ 4' (H224041-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2022	ND	2.00	100	2.00	9.28	
Toluene*	<0.050	0.050	09/02/2022	ND	2.35	117	2.00	14.4	
Ethylbenzene*	<0.050	0.050	09/02/2022	ND	2.34	117	2.00	17.2	
Total Xylenes*	<0.150	0.150	09/02/2022	ND	7.26	121	6.00	17.5	
Total BTEx	<0.300	0.300	09/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	09/06/2022	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2022	ND	194	97.1	200	1.44	
DRO >C10-C28*	<10.0	10.0	09/03/2022	ND	215	107	200	4.09	
EXT DRO >C28-C36	<10.0	10.0	09/03/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Joel Lowry Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 16453 Project Owner: Goodnight Project Name: Nolan Ryan Project Location: Rural Lea Co, NM Sampler Name: Miguel Ramirez				BILL TO P.O. #: Company: Goodnight Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST									
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING		Chloride		TPH (8015M)		BTEX (8021B)			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME			
H224041																	
1	NW3	0	1			X				X			9/1/22		X	X	
2	NW4																
3	NW9																
4	SUS																
5	SUB																
6	FL 127 @ 3'																
7	FL 128 @ 4'																
8	FL 129 @ 4'																
9	FL 130 @ 4'																
10	FL 13 @ 4'																
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																	
Relinquished By: Date: 9-2-22 Time: 1:22				Received By: Date: Time:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: Standard Please email copy of COC and results to pm@etechenv.com.									
Delivered By: (Circle One) <input checked="" type="radio"/> C <input type="radio"/> B <input type="radio"/> O <input type="radio"/> U Sampler - UPS - Bus - Other: 542 #113				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>				CHECKED BY: (Initials)									

FORM-006
Revision 1.0

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



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

September 09, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 09/08/22 11:47.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/09/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: NW 6 (H224120-01)

BTX 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	09/08/2022	ND	1.99	99.3	2.00	2.41	QR-03
Toluene*	<0.050	0.050	09/08/2022	ND	2.31	115	2.00	4.78	QR-03
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.32	116	2.00	4.52	QR-03
Total Xylenes*	<0.150	0.150	09/08/2022	ND	7.25	121	6.00	4.28	QR-03
Total BTX	<0.300	0.300	09/08/2022	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/08/2022	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	200	100	200	0.455	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	224	112	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/09/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: FL 137 @ 4' (H224120-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.99	99.3	2.00	2.41		
Toluene*	<0.050	0.050	09/08/2022	ND	2.31	115	2.00	4.78		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.32	116	2.00	4.52		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	7.25	121	6.00	4.28		
Total BTEx	<0.300	0.300	09/08/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	09/08/2022	ND	400	100	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	200	100	200	0.455	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	224	112	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/09/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: FL 140 @ 4' (H224120-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2022	ND	1.99	99.3	2.00	2.41		
Toluene*	<0.050	0.050	09/08/2022	ND	2.31	115	2.00	4.78		
Ethylbenzene*	<0.050	0.050	09/08/2022	ND	2.32	116	2.00	4.52		
Total Xylenes*	<0.150	0.150	09/08/2022	ND	7.25	121	6.00	4.28		
Total BTEx	<0.300	0.300	09/08/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	09/08/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2022	ND	200	100	200	0.455	
DRO >C10-C28*	<10.0	10.0	09/08/2022	ND	224	112	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	09/08/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

Company Name: <u>Etech Environmental & Safety Solutions</u>				BILL TO				ANALYSIS REQUEST																	
Project Manager: <u>Joel Lowry</u>				P.O. #:																					
Address: <u>2617 W. Marland</u>				Company: <u>Goodnight</u>																					
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:																					
Phone #: <u>575-264-9884</u> Fax #:				Address:																					
Project #: <u>Nolan Ryan to p</u> Project Owner: <u>Goodnight</u>				City:																					
Project Name: <u>Nolan Ryan to repair pipeline</u>				State: Zip:																					
Project Location: <u>Rural Lea Co, NM</u>				Phone #:																					
Sampler Name: <u>Miguel Ramirez</u>				Fax #:																					
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
<u>H224120</u>															<u>Chlorides</u>	<u>BTEX</u>	<u>TPH</u>								
	<u>1 NW6</u>	<u>1</u>	<u>1</u>			<u>X</u>				<u>X</u>			<u>9822</u>		<u>X</u>	<u>X</u>	<u>X</u>								
	<u>2 FL 137 @ 4'</u>	<u>1</u>	<u>1</u>			<u>↓</u>				<u>↓</u>			<u>↓</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>								
	<u>3 FL 140 @ 4'</u>	<u>1</u>	<u>1</u>			<u>↓</u>				<u>↓</u>			<u>↓</u>		<u>↓</u>	<u>↓</u>	<u>↓</u>								

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Relinquished By: <u>[Signature]</u>	Date: <u>9-8-22</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: <u>1147</u>		All Results are emailed. Please provide Email address: <u>pm@etechnv.com</u>
Relinquished By:	Date:	Received By:	REMARKS: <u>Rush please</u>
	Time:		
Delivered By: (Circle One)	Observed Temp. °C <u>10.9</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>10.3</u>	CHECKED BY: <u>[Signature]</u>	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 Correction Factor -0.6°C
			Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 07/18/22

† Cardinal cannot accept verbal changes. Please email changes to coley.keene@cardinallabsnm.com



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

September 13, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 09/08/22 15:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 5 (H224134-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEX	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/13/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 68.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 7 (H224134-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/13/2022	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 63.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 70.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 132 @ 4' (H224134-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	09/13/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 74.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 133 @ 4' (H224134-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	09/13/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 70.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 134 @ 4' (H224134-05)

BTX 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	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTX	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	239	119	200	3.25	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	208	104	200	3.27	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 69.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 135 @ 4' (H224134-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	221	110	200	0.545	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	193	96.3	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 136 @ 4' (H224134-07)

BTX 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	09/12/2022	ND	1.98	99.1	2.00	0.208	
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85	
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55	
Total BTX	<0.300	0.300	09/12/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	09/13/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	221	110	200	0.545	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	193	96.3	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.4 % 46.3-178

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Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 138 @ 4' (H224134-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1640	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	221	110	200	0.545	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	193	96.3	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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

Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 139 @ 4' (H224134-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15400	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	221	110	200	0.545	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	193	96.3	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 141 @ 4' (H224134-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	28800	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	221	110	200	0.545	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	193	96.3	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 142 @ 4' (H224134-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	221	110	200	0.545	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	193	96.3	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 143 @ 4' (H224134-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5400	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	221	110	200	0.545	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	193	96.3	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 144 @ 4' (H224134-13)

BTX 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	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTX	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	221	110	200	0.545	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	193	96.3	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 86.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 145 @ 4' (H224134-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	221	110	200	0.545	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	193	96.3	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 89.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 146 @ 4' (H224134-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2022	ND	1.98	99.1	2.00	0.208		
Toluene*	<0.050	0.050	09/12/2022	ND	2.21	111	2.00	1.85		
Ethylbenzene*	<0.050	0.050	09/12/2022	ND	2.15	107	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2022	ND	6.66	111	6.00	3.55		
Total BTEx	<0.300	0.300	09/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	23000	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	221	110	200	0.545	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	193	96.3	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 87.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.6 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/08/2022
 Reported: 09/13/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/08/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 8 (H224134-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2022	ND	2.06	103	2.00	13.0	
Toluene*	<0.050	0.050	09/13/2022	ND	2.01	101	2.00	13.0	
Ethylbenzene*	<0.050	0.050	09/13/2022	ND	1.97	98.5	2.00	13.2	
Total Xylenes*	<0.150	0.150	09/13/2022	ND	6.08	101	6.00	13.0	
Total BTEx	<0.300	0.300	09/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/12/2022	ND	221	110	200	0.545	
DRO >C10-C28*	<10.0	10.0	09/12/2022	ND	193	96.3	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	09/12/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

 $\frac{1}{2}$ [illegible]



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: *Bob Lowry*

Address: 2617 West Marland

City: Hobbs

State: NM Zip: 88240

Phone #: (575) 264-9884

Fax #:

Project #: 16453

Project Owner: *Goodnight*

Project Name: *Nolan Ryan to Piper pipeline*

Project Location: *Rural Lea Co, NM*

Sampler Name: *Miguel Ramirez*

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: *Goodnight*

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

Chloride

TPH (8015M)

BTEX (8021B)

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE TIME

H224134

11
12
13
14
15
16

FL 142 @ 4'
FL 143 @ 4'
FL 144 @ 4'
FL 145 @ 4'
FL 146 @ 4'
SW8

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Relinquished By:

Date: *9-8-22*
Time: *1505*

Received By:

Spodriguey

Relinquished By:

Date:
Time:

Received By:

Delivered By: (Circle One)

3-5°C - O.U.?
2-9°C #113

Sample Condition

Cool Intact

☒ Yes ☐ No

☐ Yes ☐ No

CHECKED BY:

(Initials)

8/2

Phone Result: ☐ Yes ☐ No

Add'l Phone #:

Fax Result: ☐ Yes ☐ No

Add'l Fax #:

REMARKS:

Standard

Please email copy of COC and results to pm@etechenv.com.



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

September 15, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 09/12/22 15:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/09/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: WW 9 (H224194-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2022	ND	1.80	90.1	2.00	8.10	
Toluene*	<0.050	0.050	09/14/2022	ND	2.01	100	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/14/2022	ND	1.98	98.9	2.00	11.4	
Total Xylenes*	<0.150	0.150	09/14/2022	ND	6.05	101	6.00	12.3	
Total BTEX	<0.300	0.300	09/14/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/14/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	216	108	200	0.528	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	215	108	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/09/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: EW 10 (H224194-02)

BTX 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	09/15/2022	ND	1.80	90.1	2.00	8.10		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.98	98.9	2.00	11.4		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.05	101	6.00	12.3		
Total BTX	<0.300	0.300	09/15/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/14/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	216	108	200	0.528	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	215	108	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/09/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 147 @ 4' (H224194-03)

BTX 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	09/15/2022	ND	1.80	90.1	2.00	8.10		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.98	98.9	2.00	11.4		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.05	101	6.00	12.3		
Total BTX	<0.300	0.300	09/15/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9730	16.0	09/14/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	216	108	200	0.528	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	215	108	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 115 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2022
 Reported: 09/15/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 148 @ 4' (H224194-04)

BTX 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	09/15/2022	ND	1.80	90.1	2.00	8.10		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.98	98.9	2.00	11.4		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.05	101	6.00	12.3		
Total BTX	<0.300	0.300	09/15/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8530	16.0	09/14/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	216	108	200	0.528	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	215	108	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2022
 Reported: 09/15/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 149 @ 4' (H224194-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	1.80	90.1	2.00	8.10		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.98	98.9	2.00	11.4		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.05	101	6.00	12.3		
Total BTEx	<0.300	0.300	09/15/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10900	16.0	09/14/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	216	108	200	0.528	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	215	108	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2022
 Reported: 09/15/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 150 @ 4' (H224194-06)

BTX 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	09/15/2022	ND	1.80	90.1	2.00	8.10		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.98	98.9	2.00	11.4		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.05	101	6.00	12.3		
Total BTX	<0.300	0.300	09/15/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7060	16.0	09/14/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2022	ND	216	108	200	0.528	
DRO >C10-C28*	<10.0	10.0	09/14/2022	ND	215	108	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	09/14/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/12/2022
 Reported: 09/15/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 151 @ 4' (H224194-07)

BTX 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	09/15/2022	ND	1.80	90.1	2.00	8.10		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.98	98.9	2.00	11.4		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.05	101	6.00	12.3		
Total BTX	<0.300	0.300	09/15/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	09/14/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 70.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/09/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 152 @ 4' (H224194-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	1.80	90.1	2.00	8.10		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.98	98.9	2.00	11.4		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.05	101	6.00	12.3		
Total BTEx	<0.300	0.300	09/15/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	09/14/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 71.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/09/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 153 @ 4' (H224194-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	1.80	90.1	2.00	8.10		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	100	2.00	10.1		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.98	98.9	2.00	11.4		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.05	101	6.00	12.3		
Total BTEx	<0.300	0.300	09/15/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3640	16.0	09/14/2022	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 67.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/09/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 154 @ 4' (H224194-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEx	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	09/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 71.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/09/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 155 @ 4' (H224194-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEx	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7460	16.0	09/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 64.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 63.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/09/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 156 @ 4' (H224194-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEx	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6640	16.0	09/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 72.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 157 @ 4' (H224194-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEx	<0.300	0.300	09/15/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	09/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 72.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 158 @ 4' (H224194-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEx	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	09/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 71.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 159 @ 4' (H224194-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEx	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11800	16.0	09/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 71.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.1 % 46.3-178

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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: NW 7 (H224194-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEX	<0.300	0.300	09/15/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 71.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 88 @ 4.5' (H224194-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEx	<0.300	0.300	09/15/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11200	16.0	09/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 72.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.2 % 46.3-178

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Analytical Results For:

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

Received: 09/12/2022
 Reported: 09/15/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 90 @ 4.5' (H224194-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEx	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	09/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 73.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.5 % 46.3-178

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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 160 @ 4' (H224194-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEx	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	09/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 70.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 70.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 161 @ 4' (H224194-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEx	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2960	16.0	09/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 69.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 70.1 % 46.3-178

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Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 162 @ 4' (H224194-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEx	<0.300	0.300	09/15/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4040	16.0	09/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 75.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.8 % 46.3-178

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Analytical Results For:

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

Received: 09/12/2022
 Reported: 09/15/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/12/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 163 @ 4' (H224194-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEX	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	09/14/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 69.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.6 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 164 @ 4' (H224194-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEx	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	09/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2022	Sampling Date:	09/12/2022
Reported:	09/15/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 165 @ 4' (H224194-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	2.02	101	2.00	8.43		
Toluene*	<0.050	0.050	09/15/2022	ND	2.01	101	2.00	8.98		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.96	98.2	2.00	8.33		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.14	102	6.00	8.75		
Total BTEx	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	09/14/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2022	ND	161	80.7	200	11.7	
DRO >C10-C28*	<10.0	10.0	09/13/2022	ND	167	83.6	200	2.14	
EXT DRO >C28-C36	<10.0	10.0	09/13/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.7 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Etech Environmental & Safety Solutions</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Joel Lowry</u>				P.O. #:															
Address: <u>2617 W. Marland</u>				Company: <u>Goodnight</u>															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:															
Phone #: <u>575-264-9884</u> Fax #: <u>-</u>				Address:															
Project #: <u>16453</u> Project Owner: <u>Goodnight</u>				City:															
Project Name: <u>Nolan Ryan to Piper Pipeline</u>				State: Zip:															
Project Location: <u>Rural Lea co, NM</u>				Phone #:															
Sampler Name: <u>Miguel Ramirez</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G/RAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING		<u>Chlorides</u> <u>BTEX</u> <u>TPH</u>							
						GROUNDWATER													
						WASTEWATER													
						SOIL													
						OIL													
						SLUDGE													
						OTHER:													
						ACID/BASE:													
						ICE / COOL													
						OTHER:													
						DATE		TIME											
H224194																			
1 WW9																			
2 EW10																			
3 FL 147 @ 4'																			
4 FL 148 @ 4'																			
5 FL 149 @ 4'																			
6 FL 150 @ 4'																			
7 FL 151 @ 4'																			
8 FL 152 @ 4'																			
9 FL 153 @ 4'																			
10 FL 154 @ 4'																			

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Relinquished By: <u>[Signature]</u>		Date: <u>9-12-22</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>1518</u>						All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS: <u>pm@atechenv.com</u>	
Time:							
Delivered By: (Circle One)		Observed Temp. °C <u>5.4</u>		Sample Condition		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>4.8</u>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Bacteria (only) Sample Condition	
				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Cool Intact Observed Temp. °C	
				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>	
				Thermometer ID #113		Corrected Temp. °C	
				Correction Factor -0.6°C			

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Etech Environmental & Safety Solutions</u>				BILL TO				ANALYSIS REQUEST																													
Project Manager: <u>Joel Lowry</u>				P.O. #:																																	
Address: <u>2617 W. Marland</u>				Company: <u>Goodnight</u>																																	
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:																																	
Phone #: <u>505-264-9889</u> Fax #:				Address:																																	
Project #: <u>11453</u> Project Owner: <u>Goodnight</u>				City:																																	
Project Name: <u>Nohra Ryan to Piper Pipeline</u>				State: Zip:																																	
Project Location: <u>Rural Lea Co, NM</u>				Phone #:																																	
Sampler Name: <u>McGue Ramiro</u>				Fax #:																																	
FOR LAB USE ONLY																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																									
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
<u>H224194</u>				<u>C</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>9-9-22</u>		<u>9-12-22</u>		<u>X</u>		<u>X</u>		<u>X</u>																	
<u>11 FL 155 @ 4'</u>				<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>																	
<u>12 FL 156 @ 4'</u>				<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>																	
<u>13 FL 157 @ 4'</u>				<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>																	
<u>14 FL 158 @ 4'</u>				<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>																	
<u>15 FL 159 @ 4'</u>				<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>																	
<u>16 NW 1</u>				<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>																	
<u>17 FL 88 @ 4.5'</u>				<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>																	
<u>18 FL 90 @ 4.5'</u>				<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>																	
<u>19 FL 160 @ 4'</u>				<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>																	
<u>20 FL 161 @ 4'</u>				<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>		<u>I</u>																	

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Relinquished By: <u>[Signature]</u>	Date: <u>9-12-22</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Time: <u>1518</u>	Received By:	All Results are emailed. Please provide Email address:
	Date:		REMARKS: <u>PM@etechenv.com</u>
	Time:		
Delivered By: (Circle One)	Observed Temp. °C <u>5.4</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>4.8</u>	CHECKED BY: (initials) <u>TO</u>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 Correction Factor -0.8°C
			<input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Etech Environmental & safety solutions</u>				BILL TO				ANALYSIS REQUEST																					
Project Manager: <u>Joel Loury</u>				P.O. #:																									
Address: <u>2617 W. Marland</u>				Company: <u>Goodnight</u>																									
City: <u>Hobbs</u>		State: <u>NM</u>		Zip: <u>88240</u>		Attn:																							
Phone #: <u>575-264-9884</u>		Fax #:		Address:		City:																							
Project #: <u>16453</u>		Project Owner: <u>Goodnight</u>		State:		Zip:																							
Project Name: <u>Nolan Ryan to paper Pipeline</u>				Phone #:																									
Project Location: <u>Rural Lea Co, NM</u>				Fax #:																									
Sampler Name: <u>Miguel Ramiro</u>																													
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING															
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE		TIME													
<u>H224194</u>				<u>C</u>		<u>1</u>		<u>X</u>				<u>X</u>		<u>9/12/22</u>				<u>Chlorides</u> <u>BTEX</u> <u>TPH</u>											
<u>21</u>		<u>FL 162 @ 4'</u>																<u>X</u> <u>↓</u>											
<u>22</u>		<u>FL 163 @ 4'</u>																<u>X</u> <u>↓</u>											
<u>23</u>		<u>FL 164 @ 4'</u>																<u>X</u> <u>↓</u>											
<u>24</u>		<u>FL 165 @ 4'</u>																											

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Relinquished By: <u>[Signature]</u>		Date: <u>9-12-22</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <u>1518</u>				All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS: <u>PM@etechnv.com</u>	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C <u>5.4</u>		Sample Condition		CHECKED BY: (Initials) <u>JO</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>4.8</u>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition	
				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C	
				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Corrected Temp. °C	

FORM-006 R 3.3 07/18/22

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

September 19, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 09/14/22 15:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/14/2022	Sampling Date:	09/13/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 166 @ 4' (H224253-01)

BTX 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	09/17/2022	ND	1.81	90.5	2.00	5.78	
Toluene*	<0.050	0.050	09/17/2022	ND	1.88	94.0	2.00	5.80	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.83	91.6	2.00	5.57	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.73	95.5	6.00	4.94	
Total BTX	<0.300	0.300	09/17/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11000	16.0	09/16/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	200	99.9	200	2.78	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	209	105	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/14/2022
 Reported: 09/19/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 167 @ 4' (H224253-02)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2022	ND	1.81	90.5	2.00	5.78		
Toluene*	<0.050	0.050	09/17/2022	ND	1.88	94.0	2.00	5.80		
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.83	91.6	2.00	5.57		
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.73	95.5	6.00	4.94		
Total BTEX	<0.300	0.300	09/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11000	16.0	09/16/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	200	99.9	200	2.78	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	209	105	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.0 % 46.3-178

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

Analytical Results For:

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

Received:	09/14/2022	Sampling Date:	09/13/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 168 @ 4' (H224253-03)

BTX 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	09/17/2022	ND	1.81	90.5	2.00	5.78		
Toluene*	<0.050	0.050	09/17/2022	ND	1.88	94.0	2.00	5.80		
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.83	91.6	2.00	5.57		
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.73	95.5	6.00	4.94		
Total BTX	<0.300	0.300	09/17/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10800	16.0	09/16/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/15/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 75.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/14/2022
 Reported: 09/19/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 169 @ 4' (H224253-04)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2022	ND	1.81	90.5	2.00	5.78		
Toluene*	<0.050	0.050	09/17/2022	ND	1.88	94.0	2.00	5.80		
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.83	91.6	2.00	5.57		
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.73	95.5	6.00	4.94		
Total BTEX	<0.300	0.300	09/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15200	16.0	09/16/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/15/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 80.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/14/2022	Sampling Date:	09/13/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 170 @ 4' (H224253-05)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2022	ND	1.81	90.5	2.00	5.78		
Toluene*	<0.050	0.050	09/17/2022	ND	1.88	94.0	2.00	5.80		
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.83	91.6	2.00	5.57		
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.73	95.5	6.00	4.94		
Total BTEX	<0.300	0.300	09/17/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12000	16.0	09/16/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/15/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 75.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.5 % 46.3-178

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Analytical Results For:

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

Received:	09/14/2022	Sampling Date:	09/13/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 171 @ 4' (H224253-06)

BTX 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	09/17/2022	ND	2.03	102	2.00	2.38	
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54	
Total BTX	<0.300	0.300	09/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	09/16/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/15/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 77.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/14/2022
 Reported: 09/19/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 172 @ 4' (H224253-07)

BTX 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	09/17/2022	ND	2.03	102	2.00	2.38	
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54	
Total BTX	<0.300	0.300	09/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11600	16.0	09/16/2022	ND	400	100	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.3 % 46.3-178

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Analytical Results For:

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

Received: 09/14/2022
 Reported: 09/19/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 173 @ 4' (H224253-08)

BTX 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	09/17/2022	ND	2.03	102	2.00	2.38	
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54	
Total BTX	<0.300	0.300	09/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20000	16.0	09/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 77.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/14/2022
 Reported: 09/19/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 174 @ 4' (H224253-09)

BTX 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	09/17/2022	ND	2.03	102	2.00	2.38	
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54	
Total BTX	<0.300	0.300	09/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15400	16.0	09/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 74.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.1 % 46.3-178

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Analytical Results For:

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

Received: 09/14/2022
 Reported: 09/19/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 175 @ 4' (H224253-10)

BTX 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	09/17/2022	ND	2.03	102	2.00	2.38	
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54	
Total BTX	<0.300	0.300	09/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11400	16.0	09/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 74.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/14/2022
 Reported: 09/19/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 176@ 4' (H224253-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2022	ND	2.03	102	2.00	2.38		
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51		
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01		
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54		
Total BTEX	<0.300	0.300	09/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	09/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.3 % 46.3-178

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Analytical Results For:

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

Received:	09/14/2022	Sampling Date:	09/13/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: NW 8 (H224253-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2022	ND	2.03	102	2.00	2.38		
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51		
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01		
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54		
Total BTEx	<0.300	0.300	09/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 65.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 65.5 % 46.3-178

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Analytical Results For:

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

Received:	09/14/2022	Sampling Date:	09/13/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: NW 9 (H224253-13)

BTX 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	09/17/2022	ND	2.03	102	2.00	2.38	
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54	
Total BTX	<0.300	0.300	09/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 72.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.9 % 46.3-178

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Analytical Results For:

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

Received:	09/14/2022	Sampling Date:	09/13/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: EW 11 (H224253-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2022	ND	2.03	102	2.00	2.38		
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51		
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01		
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54		
Total BTEx	<0.300	0.300	09/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 69.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.7 % 46.3-178

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Analytical Results For:

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

Received:	09/14/2022	Sampling Date:	09/13/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: EW 12 (H224253-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2022	ND	2.03	102	2.00	2.38		
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51		
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01		
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54		
Total BTEx	<0.300	0.300	09/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 59.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 61.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/14/2022	Sampling Date:	09/13/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: SW 9 (H224253-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	2.03	102	2.00	2.38	
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54	
Total BTEx	<0.300	0.300	09/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	188	93.9	200	2.75	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	194	97.0	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 70.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/14/2022	Sampling Date:	09/13/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: SW 10 (H224253-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2022	ND	2.03	102	2.00	2.38		
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51		
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01		
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54		
Total BTEX	<0.300	0.300	09/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/15/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 68.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/14/2022
 Reported: 09/19/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 10 (H224253-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	2.03	102	2.00	2.38	
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54	
Total BTEx	<0.300	0.300	09/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/15/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 63.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.2 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/14/2022	Sampling Date:	09/13/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: WW 11 (H224253-19)

BTX 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	09/17/2022	ND	2.03	102	2.00	2.38		
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51		
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01		
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54		
Total BTX	<0.300	0.300	09/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/15/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 62.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 70.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/14/2022	Sampling Date:	09/14/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: WW 12 (H224253-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2022	ND	2.03	102	2.00	2.38		
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51		
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01		
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54		
Total BTEx	<0.300	0.300	09/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 70.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/14/2022
 Reported: 09/19/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 10 (H224253-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	2.03	102	2.00	2.38	
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54	
Total BTEx	<0.300	0.300	09/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 68.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/14/2022	Sampling Date:	09/14/2022
Reported:	09/19/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 141 @ 4.5' (H224253-22)

BTX 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	09/17/2022	ND	2.03	102	2.00	2.38		
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51		
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01		
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54		
Total BTX	<0.300	0.300	09/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	09/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 65.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/14/2022
 Reported: 09/19/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 146 @ 4.5' (H224253-23)

BTX 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	09/17/2022	ND	2.03	102	2.00	2.38	
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54	
Total BTX	<0.300	0.300	09/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12200	16.0	09/16/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 66.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/14/2022
 Reported: 09/19/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/14/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 177 @ 4' (H224253-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2022	ND	2.03	102	2.00	2.38	
Toluene*	<0.050	0.050	09/17/2022	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/17/2022	ND	1.95	97.5	2.00	2.01	
Total Xylenes*	<0.150	0.150	09/17/2022	ND	5.98	99.7	6.00	2.54	
Total BTEX	<0.300	0.300	09/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	09/16/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2022	ND	199	99.3	200	1.88	
DRO >C10-C28*	<10.0	10.0	09/16/2022	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	09/16/2022	ND					

Surrogate: 1-Chlorooctane 55.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 63.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/3

Company Name: <u>Etech Environmental & Safety Solutions</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Joel Lowry</u>				P.O. #:															
Address: <u>2617 W. Marland</u>				Company: <u>Goodnight</u>															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:															
Phone #: <u>575-264-9884</u> Fax #: <u>-</u>				Address:															
Project #: <u>16453</u> Project Owner: <u>Goodnight</u>				City:															
Project Name: <u>Nolan Ryan to Apex Pipeline</u>				State: Zip:															
Project Location: <u>Bernalillo, CO NM</u>				Phone #:															
Sampler Name: <u>Miguel Ramirez</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(GRAB OR COMPOUND)	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		<u>Chloride</u> <u>BTEX</u> <u>TPH</u>								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:						ICE / COOL	OTHER:	DATE	TIME
<u>HZZ4253</u>																			
1	FL 168 @ 4'	C	1			X				X								9-13-22	
2	FL 167 @ 4'																		
3	FL 168 @ 4'																		
4	FL 169 @ 4'																		
5	FL 170 @ 4'																		
6	FL 171 @ 4'																		
7	FL 172 @ 4'																		
8	FL 173 @ 4'																		
9	FL 174 @ 4'																		
10	FL 175 @ 4'																		

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Relinquished By: <u>[Signature]</u>	Date: <u>9-14-22</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Time: <u>1505</u>			All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS: <u>Pm@etechenv.com</u>
Time:			
Delivered By: (Circle One)	Observed Temp. °C <u>1.1</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <u>[Signature]</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>0.5</u>	Thermometer ID #113 Correction Factor -0.6°C	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C
		Corrected Temp. °C	

FORM-006 R 3.3 07/18/22

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/3

Company Name: <u>Etech Environmental & Safety Solutions</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Joel Lowry</u>				P.O. #:															
Address: <u>2617 W. Marland</u>				Company: <u>Goodnight</u>															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:															
Phone #: <u>575-269-7854</u> Fax #:				Address:															
Project #: <u>16453</u> Project Owner: <u>Goodnight</u>				City:															
Project Name: <u>Nolan Ryan to Tiger Pipeline</u>				State: Zip:															
Project Location: <u>Rural Lea Co, NM</u>				Phone #:															
Sampler Name: <u>Miguel Ramirez</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		Chlorides BTEX TPH								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:						ICE / COOL	OTHER:	DATE	TIME
#224253																			
11	FL 176 @ 4'												9-13-22						
12	NW 8																		
13	NW 9																		
14	EW 11																		
15	EW 12																		
16	SW 9																		
17	SW 10																		
18	WW 10																		
19	WW 11																		
20	WW 12												9-14-22						

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Relinquished By:	Date: <u>9-14-22</u>	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: <u>1505</u>		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS: <u>PM@cedcheny.com</u>
	Time:		
Delivered By: (Circle One)	Observed Temp. °C <u>1.1</u>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY: (Initials) <u>yo</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>0.5</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
			Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/>
			Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
			Corrected Temp. °C

FORM-006 R 3.5 07/18/22

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

September 22, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 09/19/22 15:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/19/2022	Sampling Date:	09/19/2022
Reported:	09/22/2022	Sampling Type:	Soil
Project Name:	NOLAN RYAN TO PIPER PIPELINE	Sampling Condition:	Cool & Intact
Project Number:	16453	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

Sample ID: FL 173 @ 4.5' (H224327-01)

BTX 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	09/21/2022	ND	1.81	90.5	2.00	6.49	
Toluene*	<0.050	0.050	09/21/2022	ND	1.83	91.3	2.00	4.56	
Ethylbenzene*	<0.050	0.050	09/21/2022	ND	1.74	87.2	2.00	5.38	
Total Xylenes*	<0.150	0.150	09/21/2022	ND	5.41	90.1	6.00	5.77	
Total BTX	<0.300	0.300	09/21/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8160	16.0	09/20/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	183	91.6	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	197	98.7	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					

Surrogate: 1-Chlorooctane 80.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.3 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Company Name: <u>Etech Environmental & Safety Solutions</u>				BILL TO				ANALYSIS REQUEST																															
Project Manager: <u>Jocelyn</u>				P.O. #:																																			
Address: <u>2617 W. Marland</u>				Company: <u>Goodnight</u>																																			
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:																																			
Phone #: <u>575-264-9884</u> Fax #:				Address:																																			
Project #: <u>10453</u> Project Owner: <u>Goodnight</u>				City:																																			
Project Name: <u>Nolan Ryan to Piper Pipeline</u>				State: Zip:																																			
Project Location: <u>Rural Lea Co, NM</u>				Phone #:																																			
Sampler Name: <u>Miguel Ramirez</u>				Fax #:																																			
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																													
Lab I.D.		Sample I.D.		(GIRAB OR (C)OMP. # CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
<u>H224327</u>		<u>FL173 @ 4.5'</u>		<u>C1</u>						<u>X</u>								<u>X</u>		<u>X</u>		<u>X</u>		<u>9-19-22</u>				<u>Chlorides</u> <u>BTX</u> <u>TPH</u>											

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>		Date: <u>9-19-22</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>1530</u>		Time: <u>1530</u>		All Results are emailed. Please provide Email address:			
Relinquished By:		Date:		Received By:		REMARKS: <u>3M Petechear.com</u>	
Time:							
Delivered By: (Circle One)		Observed Temp. °C <u>50</u>		Sample Condition		CHECKED BY: (Initials) <u>[Signature]</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>44</u>		Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
				Thermometer ID #113		Bacteria (only) Sample Condition	
				Correction Factor -0.6°C		Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
						Observed Temp. °C	
						Corrected Temp. °C	

FORM-006 R 3.3 07/16/22

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

October 04, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN

Enclosed are the results of analyses for samples received by the laboratory on 09/29/22 15:26.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 177 @ 4' (H224543-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92	
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43	
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54	
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54	
Total BTEX	<0.300	0.300	10/02/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	09/30/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	213	107	200	4.05	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	207	104	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 178 @ 4' (H224543-02)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92	
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43	
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54	
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54	
Total BTX	<0.300	0.300	10/02/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	09/30/2022	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	213	107	200	4.05	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	207	104	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 179 @ 4' (H224543-03)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92	
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43	
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54	
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54	
Total BTX	<0.300	0.300	10/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2960	16.0	09/30/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	213	107	200	4.05	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	207	104	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 180 @ 4' (H224543-04)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92	
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43	
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54	
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54	
Total BTEx	<0.300	0.300	10/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	10/03/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	219	109	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 115 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 181 @ 4' (H224543-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92		
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43		
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54		
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54		
Total BTEx	<0.300	0.300	10/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3340	16.0	10/03/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	219	109	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 118 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 182 @ 4' (H224543-06)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92	
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43	
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54	
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54	
Total BTEx	<0.300	0.300	10/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	10/03/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	219	109	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 118 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 13 (H224543-07)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92	
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43	
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54	
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54	
Total BTX	<0.300	0.300	10/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	219	109	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 132 % 45.3-161

Surrogate: 1-Chlorooctadecane 141 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 11 (H224543-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92		
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43		
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54		
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54		
Total BTEx	<0.300	0.300	10/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	219	109	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 117 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 12 (H224543-09)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92	
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43	
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54	
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54	
Total BTEx	<0.300	0.300	10/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/03/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	219	109	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 13 (H224543-10)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92	
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43	
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54	
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54	
Total BTX	<0.300	0.300	10/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/03/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	219	109	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 121 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

October 04, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: NOLAN RYAN TO PIPER PIPELINE

Enclosed are the results of analyses for samples received by the laboratory on 09/29/22 15:26.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: T. T. 1 @ 8' (H224545-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92	
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43	
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54	
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54	
Total BTEX	<0.300	0.300	10/02/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/03/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	219	109	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 119 % 45.3-161

Surrogate: 1-Chlorooctadecane 126 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: T. T. 2 @ 7' (H224545-02)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92	
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43	
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54	
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54	
Total BTEx	<0.300	0.300	10/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/03/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	219	109	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 115 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: T. T. 3 @ 8' (H224545-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92		
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43		
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54		
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54		
Total BTEx	<0.300	0.300	10/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	219	109	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2022
 Reported: 10/04/2022
 Project Name: NOLAN RYAN TO PIPER PIPELINE
 Project Number: 16453
 Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 09/29/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: T. T. 4 @ 8' (H224545-04)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2022	ND	2.05	103	2.00	6.92	
Toluene*	<0.050	0.050	10/02/2022	ND	2.03	102	2.00	5.43	
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.02	101	2.00	5.54	
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.15	103	6.00	5.54	
Total BTEx	<0.300	0.300	10/02/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/03/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	214	107	200	9.24	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	219	109	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 119 % 45.3-161

Surrogate: 1-Chlorooctadecane 129 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Appendix E

Regulatory Correspondence

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 134958

CONDITIONS

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 134958
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Proposed alternate sampling plan is approved. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than five hundred (500) square feet. Please provide depth to groundwater data confirming the location of CW-1 (lat/long) and documentation with OSE.	8/18/2022

From: [Joel Lowry](#)
To: [Ben Arguijo](#)
Subject: FW: [EXTERNAL] nAPP2222236588 - Goodnight's Nolan Ryan to Piper Pipeline - Confirmation Sampling - FW: Goodnight's Piper to Nolan Ryan Reportable Release - Southern Portion on State Trust
Date: Thursday, September 15, 2022 10:19:15 AM

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Thursday, September 15, 2022 9:02 AM
To: Joel Lowry <joel@etechenv.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Subject: FW: [EXTERNAL] nAPP2222236588 - Goodnight's Nolan Ryan to Piper Pipeline - Confirmation Sampling - FW: Goodnight's Piper to Nolan Ryan Reportable Release - Southern Portion on State Trust

Joel

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

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Thursday, September 15, 2022 8:31 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: Fw: [EXTERNAL] nAPP2222236588 - Goodnight's Nolan Ryan to Piper Pipeline - Confirmation Sampling - FW: Goodnight's Piper to Nolan Ryan Reportable Release - Southern Portion on State Trust

From: Joel Lowry <joel@etechenv.com>
Sent: Thursday, September 15, 2022 8:21 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Subject: [EXTERNAL] nAPP2222236588 - Goodnight's Nolan Ryan to Piper Pipeline - Confirmation Sampling - FW: Goodnight's Piper to Nolan Ryan Reportable Release - Southern Portion on State

Trust

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

All,

This email serves as notice the Etech intends to complete final sampling in the coming days at Goodnight's Nolan Ryan to Piper Pipeline release. Confirmation sampling will be conducted in accordance with applicable NMOCD Regulations and the NMOCD Approved Alternative Sampling Plan and Characterization Report. Thanks.

Respectfully,

Joel Lowry

From: Joel Lowry

Sent: Tuesday, September 6, 2022 2:03 PM

To: spills@slo.state.nm.us

Subject: FW: Goodnight's Piper to Nolan Ryan Reportable Release - Southern Portion on State Trust

From: Joel Lowry

Sent: Tuesday, August 30, 2022 1:28 PM

To: Mann, Ryan <rmann@slo.state.nm.us>

Subject: Goodnight's Piper to Nolan Ryan Reportable Release - Southern Portion on State Trust

Mr. Mann,

Attached is some information regarding a recent reportable release by Goodnight Midstream. A majority of the release is on deeded land but as you will see is affected about 2,500 sq. ft. of State Trust Lands at the Southern Terminus. We have already started remediation of the portion on the deeded tract pending archeological from that which is on State. We got a negative report from SWCA and I remembered that we might need an ROE before beginning ground disturbing activities on that portion. Might you take a look at if for me when you get the chance? We are completing the remediation "At Risk" since we have already done 2 projects in that area and have good groundwater control. You are welcome to review the attached characterization report that was accepted and approved by the NMOCD. We will undoubtedly send you a copy of the Closure Report once we are done out there; we won't start on the Trust Lands without your guidance. Thanks.

Respectfully,

Joel Lowry

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
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 169187

CONDITIONS

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 169187
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Going forward, please include a site plan showing locations of delineation points.	1/17/2023