


Remediation Summary & Soil Closure Request

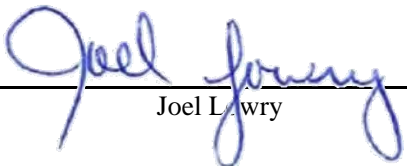
Solaris Water Midstream, LLC Lobo 285 Frac Tank Overflow

Eddy County, New Mexico
Unit Letter "A", Section 22, Township 25S South, Range 28E East
Latitude 32.12183 North, Longitude 104.07072 West
NMOCD Reference No. nAPP2221532955

Prepared By:

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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 Solaris Water Midstream, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Lobo 285 Frac Tank Overflow. Details of the release are summarized below:

Location of Release Source

Latitude: 32.12183 Longitude: -104.07072

Provided GPS are in WGS84 format.

Site Name: Lobo 285 Frac Tank Overflow	Site Type: Well Head
Date Release Discovered: 8/2/2022	API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
"A"	22	25SS	28EE	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name _____)

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) 120	Volume Recovered (bbls) 25
	Is the concentration of dissolved chloride 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:

A driver for a trucking company allowed produced water to overflow from a frac tank after a frac tank control probe malfunctioned. A portion of the release affected an area that had been previously impacted by a release that occurred on December 16, 2021, known as the Lobo 285 SWD Water Reuse (NMOCD Incident #nAPP2135135752). This area (henceforth, "Commingle Area") was remediated in conjunction with the aforementioned release.

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 New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 100 and 500 (ft.)
What method was used to determine the depth to groundwater?	Direct Measurement
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	1 to 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	½ to 1 (mi.)
An occupied permanent residence, school, hospital, institution or church?	> 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	½ to 1 (mi.)
Any other fresh water well or spring?	½ to 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	> 5 (mi.)
A wetland?	1 to 5 (mi.)
A subsurface mine?	> 5 (mi.)
A (non-karst) unstable area?	1,000 (ft.) to ½ (mi.)
Categorize the risk of this well/site being in a karst geology.	Medium
A 100-year floodplain?	1 to 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Searches of databases maintained by the NMOCD, New Mexico Office of the State Engineer (NMOSE), and United States Geological Survey (USGS) were conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Lobo 285 Frac Tank Overflow release site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on June 15, 2022, an investigative soil boring was drilled on-site in an effort to determine if shallow groundwater is present in the area. The soil boring was advanced to a total depth of approximately 105 feet below ground surface (bgs) and left open for 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil bore or prior to plugging and abandonment. The location of the investigative soil bore is depicted in Figure 2A. Depth to groundwater information and a drilling log are provided in Appendix A.

Additional NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2A, 2B, 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 Standard for the Lobo 285 Frac Tank Overflow release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
Between 100 and 500 (ft.) Feet	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	-
	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 SITE ASSESSMENT

On August 9, 2022, Etech conducted an initial site assessment. During the initial site assessment, four (4) hand-augered soil bores (V1 through V4) 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.

Based on field observations and field test data, four (4) delineation soil samples (V1 @ 6", V2 @ 6", V3 @ 6", and V4 @ 6") were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, GRO + DRO, and TPH concentrations exceeded the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. Chloride concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples.

Based on laboratory analytical data, additional vertical delineation was required in the areas characterized by sample points V1 through V4.

On September 28, 2022, Etech continued the site assessment. In an effort to further investigate the vertical extent of impacted soil, a backhoe was utilized to advance test trenches in the areas characterized by sample points V1 through V4 to total depths ranging from three (3) to six (6) feet bgs. During the advancement of the test trenches, soil samples were collected and field-screened as previously described for the presence of VOCs and/or concentrations of chloride.

Based on field observations and field test data, four (4) delineation soil samples (V1 @ 3', V3 @ 4', V4 @ 4', and V4 @ 6') 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.

Based on laboratory analytical data, the vertical extent of impacted soil was adequately defined in the areas characterized by sample points V1 through V4 and did not extend beyond three (3) to four (4) feet bgs. However, additional delineation was required to determine the horizontal extent of impacted soil.

The locations of the hand-augered soil borings and test trenches are depicted in Figure 3A, "Sample Location Map (Delineation)".

5.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
On what estimated date did, or will, the remediation commence?	<u>9/27/2023</u>
On what date will (or was) the remediation complete(d)?	<u>11/8/2023</u>
What was the total surface area (sq. ft.) that has or will be remediated?	<u>16,000</u>
What was the total volume (cy) that has or will be remediated?	<u>563</u>
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	<u>R360 Red Bluff Facility</u>
NMOCD Disposal Facility ID?	<u>Texas</u>
Summarize any additional remediation activities not included by answers above.	<u>See below</u>

On September 27, 2023, remediation activities commenced at the Lobo 285 Frac Tank Overflow release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The floor and sidewalls of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria. Representative five-point composite confirmation soil samples were collected every 200 square feet from the floor and sidewalls of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	26,800	EW2 (Commingle Area)	10/9/2023	0-1	Excavated
TPH	52,100	V4 @ 6"	8/9/2022	0.5	Excavated
GRO+DRO	41,500	V4 @ 6"	8/9/2022	0.5	Excavated
Benzene	412	V2 @ 6"	8/9/2022	0.5	Excavated
BTEX	2.47	V2 @ 6"	8/9/2022	0.5	Excavated

Please reference Table 1 for additional information.

On September 27, 2023, Etech collected 10 confirmation soil samples (FL #1 @ 3' through FL #5 @ 3' and FL #8 @ 3' through FL #12 @ 3') from the floor of the excavation in the Commingled Area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples. GRO+DRO concentrations in soil samples FL #2 @ 3', FL #8 @ 3', FL #10 @ 3', FL #11 @ 3', and FL #12 @ 3' exceeded the NMOCD Closure Criterion. TPH concentrations in soil samples FL #2 @ 3', FL #10 @ 3', FL #11 @ 3', and FL #12 @ 3' exceeded the NMOCD Closure Criterion. Chloride concentrations in soil sample FL #10 @ 3' exceeded the NMOCD Closure Criterion. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL #2 @ 3', FL #8 @ 3', FL #10 @ 3', FL #11 @ 3', and FL #12 @ 3'.

On September 28, 2023, Etech collected 14 confirmation soil samples (FL #13 @ 3' through FL #22 @ 3' and FL #24 @ 3' through FL #27 @ 3') from the floor of the excavation in the Commingled Area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples. GRO+DRO concentrations in soil samples FL #13 @ 3', FL #16 @ 3' through FL #19 @ 3', FL #21 @ 3', FL #25 @ 3', FL #26 @ 3', and FL #27 @ 3' exceeded the NMOCD Closure Criterion. TPH concentrations in soil samples FL #13 @ 3', FL #16 @ 3' through FL #19 @ 3', FL #25 @ 3', FL #26 @ 3', and FL #27 @ 3' exceeded the NMOCD Closure Criterion. Chloride concentrations in soil sample FL #25 @ 3' exceeded the NMOCD Closure Criterion. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL #13 @ 3', FL #16 @ 3' through FL #19 @ 3', FL #21 @ 3', FL #25 @ 3', FL #26 @ 3', and FL #27 @ 3'.

On October 6, 2023, Etech collected five (5) confirmation soil samples (FL 2 @ 6 In, FL 8 @ 6 In, FL 10 @ 6 In, FL 11 @ 6 In, and FL 12 @ 6 In) from the floor of the excavation in the Commingled Area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On October 9, 2023, Etech collected 14 confirmation soil samples (FL 6 @ 3 In, FL 7 @ 3 In, FL 13 @ 6 In, FL 16 @ 6 In through FL 19 @ 6 In, FL 21 @ 6 In, FL 25 @ 1 Ft through FL 27 @ 1 Ft, NW1, EW2, and WW2) from the floor and sidewalls of the excavation in the Commingled Area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples. GRO+DRO concentrations in soil samples FL 16 @ 6 In and FL 18 @ 6 In exceeded the NMOCD Closure Criterion. Chloride concentrations in soil samples NW1 and EW2 exceeded the NMOCD Closure Criterion. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL 16 @ 6 In, FL 18 @ 6 In, NW1, and EW2.

On October 13, 2023, Etech collected six (6) confirmation soil samples (FL 16 @ 1 Ft, FL 18 @ 1 Ft, NW1B, EW2B, SW3, and WW5) from the floor and sidewalls of the excavation in the Commingled Area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On October 19, 2023, Etech collected nine (9) confirmation soil samples (FL 1 @ 6 In through FL 9 @ 6 In) 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 that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On October 23, 2023, Etech collected 12 confirmation soil samples (FL 10 @ 6 In through FL 21 @ 6 In) 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 that BTEX concentrations in soil samples FL 18 @ 6 In and FL 21 @ 6 In exceeded the NMOCD Closure Criterion. GRO+DRO concentrations in soil samples FL 14 @ 6 In and FL 17 @ 6 In through FL 21 @ 6 In exceeded the NMOCD Closure Criterion. TPH concentrations in soil samples FL 14 @ 6 In and FL 18 @ 6 In through FL 21 @ 6 In

exceeded the NMOCD Closure Criterion. Chloride concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL 14 @ 6 In and FL 17 @ 6 In through FL 21 @ 6 In.

On October 24, 2023, Etech collected nine (9) confirmation soil samples (FL 7 @ 1 Ft, FL 22 @ 6 In through FL 25 @ 6 In, and FL 28 @ 6 In through FL 31 @ 6 In) 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 that BTEX concentrations in soil samples FL 25 @ 6 In, FL 30 @ 6 In, and FL 31 @ 6 In exceeded the NMOCD Closure Criterion. GRO+DRO and TPH concentrations in soil samples FL 24 @ 6 In, FL 25 @ 6 In, and FL 28 @ 6 In through FL 31 @ 6 In exceeded the applicable NMOCD Closure Criteria. Chloride concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL 24 @ 6 In, FL 25 @ 6 In, and FL 28 @ 6 In through FL 31 @ 6 In.

On October 26, 2023, Etech collected 19 confirmation soil samples (FL #35 @ 6 In through FL #39 @ 6 In, FL #47 @ 0-3 In through FL #54 @ 4 Ft, NW-1, EW-1, EW-2, SW-1, WW-1, and WW-2) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. The GRO+DRO and TPH concentrations in soil sample FL #47 @ 0-3 In exceeded the applicable NMOCD Closure Criteria. Based on these laboratory analytical results, the excavation was subsequently further advanced in the area characterized by soil sample FL #47 @ 0-3.

On October 27, 2023, Etech collected 23 confirmation soil samples (FL #40 @ 6 In through FL #47 @ 6 In, FL #55 @ 2-4 Ft, NW-2 through NW-7, EW-3, SW-2 through SW-7, and WW-3) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On October 29, 2023, Etech advanced a series of hand-augered soil bores along the inferred release margins of the release to further investigate the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, 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.

Based on field observations and field test data, four (4) delineation soil samples (NHc, EHf, SHd, and WHc) were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. The TPH concentration in soil sample WHc exceeded the NMOCD Closure Criterion. Based on these laboratory analytical results, the horizontal extent of impacted soil was adequately defined in the areas characterized by sample points NHc, EHf, and SHd. However, additional horizontal delineation was required in the area characterized by sample point WHc.

On October 29, 2023, Etech also collected 10 confirmation soil samples (FL #32 @ 6 In, FL #33 @ 6 In, FL #34 @ 6 In, NW-8, EW-4 through EW-7, SW-8, and SW-9) 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 that BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. GRO+DRO concentrations in soil samples FL #32 @ 6 In, FL #33 @ 6 In, FL #34 @ 6 In, EW-6, EW-7, SW-8, and SW-9 exceeded the NMOCD Closure Criterion. TPH concentrations in soil samples FL #32 @ 6 In, FL #33 @ 6 In, FL #34 @ 6 In, EW-6, EW-7, and SW-9 exceeded the NMOCD Closure Criterion. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL #32 @ 6 In, FL #33 @ 6 In, FL #34 @ 6 In, EW-6, EW-7, SW-8, and SW-9.

On October 31, 2023, Etech collected 10 confirmation soil samples (FL #14, FL #17 through FL #21, and FL #24 @ 1 through FL #27) 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 that BTEX concentrations in soil samples FL #20, FL #21, and FL #24 @ 1 exceeded the NMOCD Closure Criterion. GRO+DRO and TPH concentrations in soil samples FL #20, FL #21, FL #24 @ 1, and FL #25 exceeded the applicable NMOCD Closure Criteria. Chloride concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL #20, FL #21, FL #24 @ 1, and FL #25.

On November 1, 2023, Etech collected seven (7) confirmation soil samples (FL 28 @ 1 through FL 31 @ 1, FL 47 @ 1, SW-8B, and SW-9B) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX concentrations in soil samples FL 29 @ 1, SW-8B, and SW-9B exceeded the NMOCD Closure Criterion. GRO+DRO and TPH concentrations in soil samples FL 28 @ 1, FL 29 @ 1, SW-8B, and SW-9B exceeded the applicable NMOCD Closure Criteria. Chloride concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples.

On November 2, 2023, Etech collected 11 confirmation soil samples (FL #20, FL #21, FL 24, FL 25, FL 28, FL 29, FL 32, FL 33, FL 34, EW-6, and EW-7) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX concentrations in soil samples FL #21, FL 25, FL 28, and FL 32 exceeded the NMOCD Closure Criterion. GRO+DRO concentrations exceeded the NMOCD Closure Criterion in each of the submitted soil samples. TPH concentrations in soil samples FL #20, FL #21, FL 25, FL 28, FL 29, and FL 32 exceeded the NMOCD Closure Criterion. Chloride concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL #20, FL #21, FL 24, FL 25, FL 28, FL 29, FL 32, FL 33, FL 34, EW-6, and EW-7.

On November 3, 2023, Etech collected two (2) confirmation soil samples (SW-8 and SW-9) 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 that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On November 6, 2023, Etech collected 11 confirmation soil samples (FL 20, FL 21, FL 24, FL 25, FL 28, FL 29, FL 32, FL 33, FL 34, EW 6, and EW 7) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On November 16, 2023, Etech advanced a series of hand-augered soil bores along the inferred margins of the release to ensure that the horizontal extent of impacted soil had been adequately delineated to the NMOCD Reclamation Standards of 100 mg/kg for TPH and 600 mg/kg for chloride. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened as previously described for the presence of VOCs and/or concentrations of chloride.

Based on field observations and field test data, three (3) delineation soil samples (SH-2A, WH-2, and WH-3) were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standard in each of the submitted soil samples. TPH and chloride concentrations in each of the submitted soil samples were below the applicable NMOCD Closure Criteria but exceeded NMOCD Reclamation Standards. Based on these laboratory analytical results, additional horizontal delineation was required in the areas characterized by sample points SH-2A, WH-2, and WH-3.

On November 21, 2023, Etech advanced an additional series of hand-augered soil bores to further investigate the horizontal extent of impacted soil in the areas characterized by sample points SH-2A, WH-2, and WH-3. During the advancement of the

hand-augered soil bores, soil samples were collected and field-screened for the presence of VOCs and/or concentrations of chloride.

Based on field observations and field test data, three (3) delineation soil samples (SH2-C, WH2-B, and WH3-A) were submitted to the laboratory for analysis of TPH and chloride. Laboratory analytical results indicated that TPH and chloride concentrations in each of the submitted soil samples were below the applicable NMOCD Closure Criteria. However, the chloride concentration in each of the samples exceeded the NMOCD Reclamation Standard, as did the TPH concentration in soil sample WH2-B. Based on these laboratory analytical results, additional horizontal delineation was required in the areas characterized by sample points SH2-C, WH2-B, and WH3-A.

On December 6, 2023, Etech advanced an additional series of hand-augered soil bores to further investigate the horizontal extent of impacted soil in the areas characterized by sample points SH2-C, WH2-B, and WH3-A. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of VOCs and/or concentrations of chloride.

Based on field observations and field test data, three (3) delineation soil samples (SH2-D, WH2-C, and WH3-C) were submitted to the laboratory for analysis of TPH and chloride. Laboratory analytical results indicated that TPH and chloride concentrations in each of the submitted soil samples were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Based on these laboratory analytical results, the horizontal extent of impacted soil was adequately delineated to the Reclamation Standards of 100 mg/kg for TPH and 600 mg/kg for chloride.

The final dimensions of the excavated area were approximately 133 to 400 feet in length, four (4) to 80 feet in width, and three (3) inches to four (4) feet in depth. During the course of remediation activities, Etech transported approximately 600 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 600 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3B, "Sample Location Map (Excavation)". 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 Appendices D and E. Copies of all regulatory correspondence are provided in Appendix F.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What was the total surface area (sq. ft.) reclaimed?	290
What was the total volume (cy) reclaimed?	37
What is the total surface area (sq. ft.) that will <i>eventually</i> be reclaimed?	73,800
What is the total volume (cy) that will <i>eventually</i> be reclaimed?	9,462

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 free of noxious weeds during the first favorable growing season following closure of the site.

7.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria 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.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Solaris Water Midstream, LLC, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Lobo 285 Frac Tank Overflow Site.

8.0 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 Solaris Water Midstream, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Solaris Water Midstream, LLC.

9.0 DISTRIBUTION

Solaris Water Midstream, LLC

907 Tradewinds Blvd

Ste B

Midland, TX 79706

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

811 S. First Street

Artesia, NM 88210

Hobbs Field Office

New Mexico State Land Office

2827 North Dal Paso Street

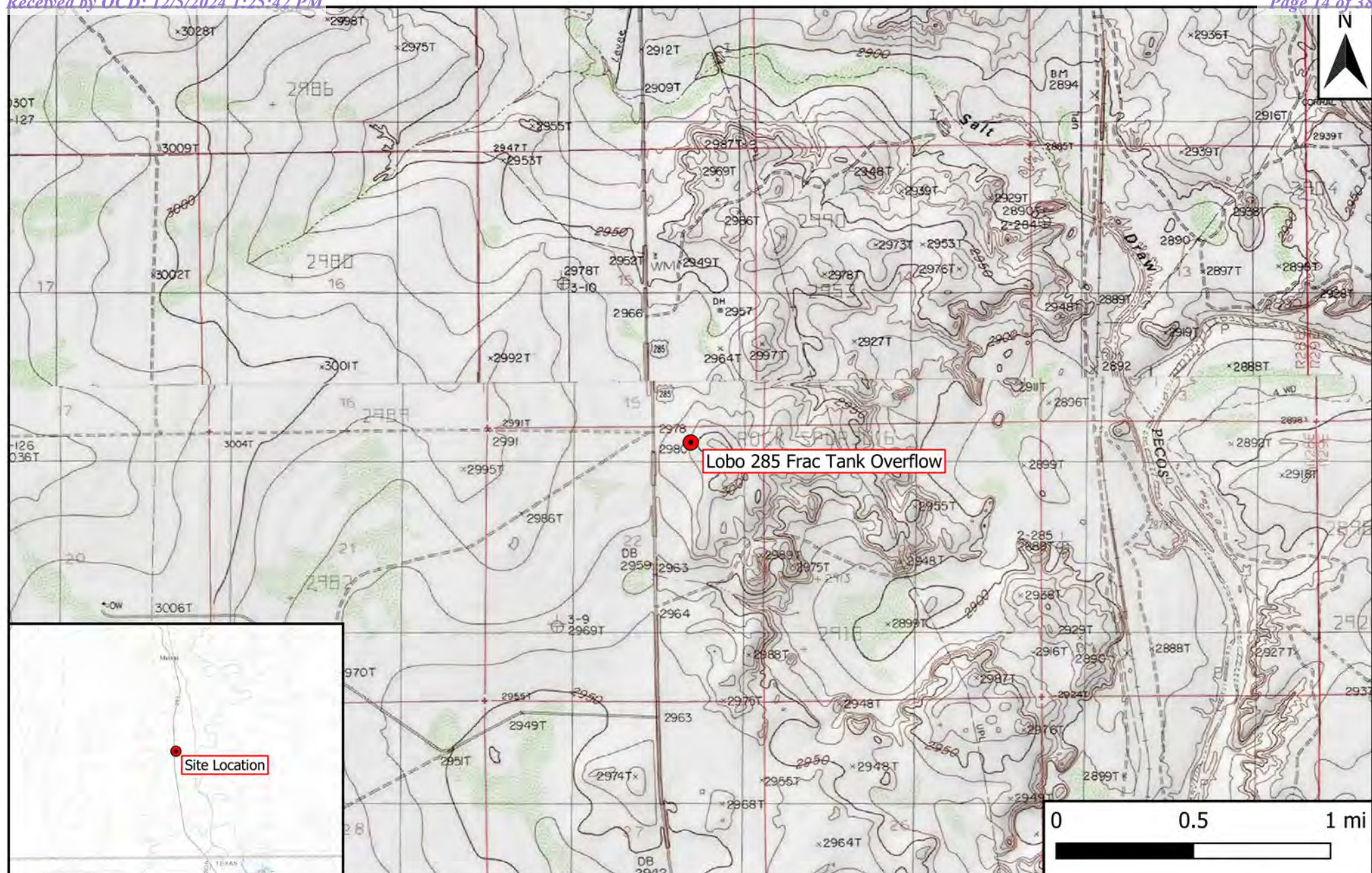
Suite 117

Hobbs, NM 88240

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1

Site Location Map
 Solaris Water Midstream, LLC
 Lobo 285 Frac Tank Overflow
 GPS: 32.12183, -104.07072
 Eddy County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 1/18/24

Figures 2A & 2B

Site Characterization Maps

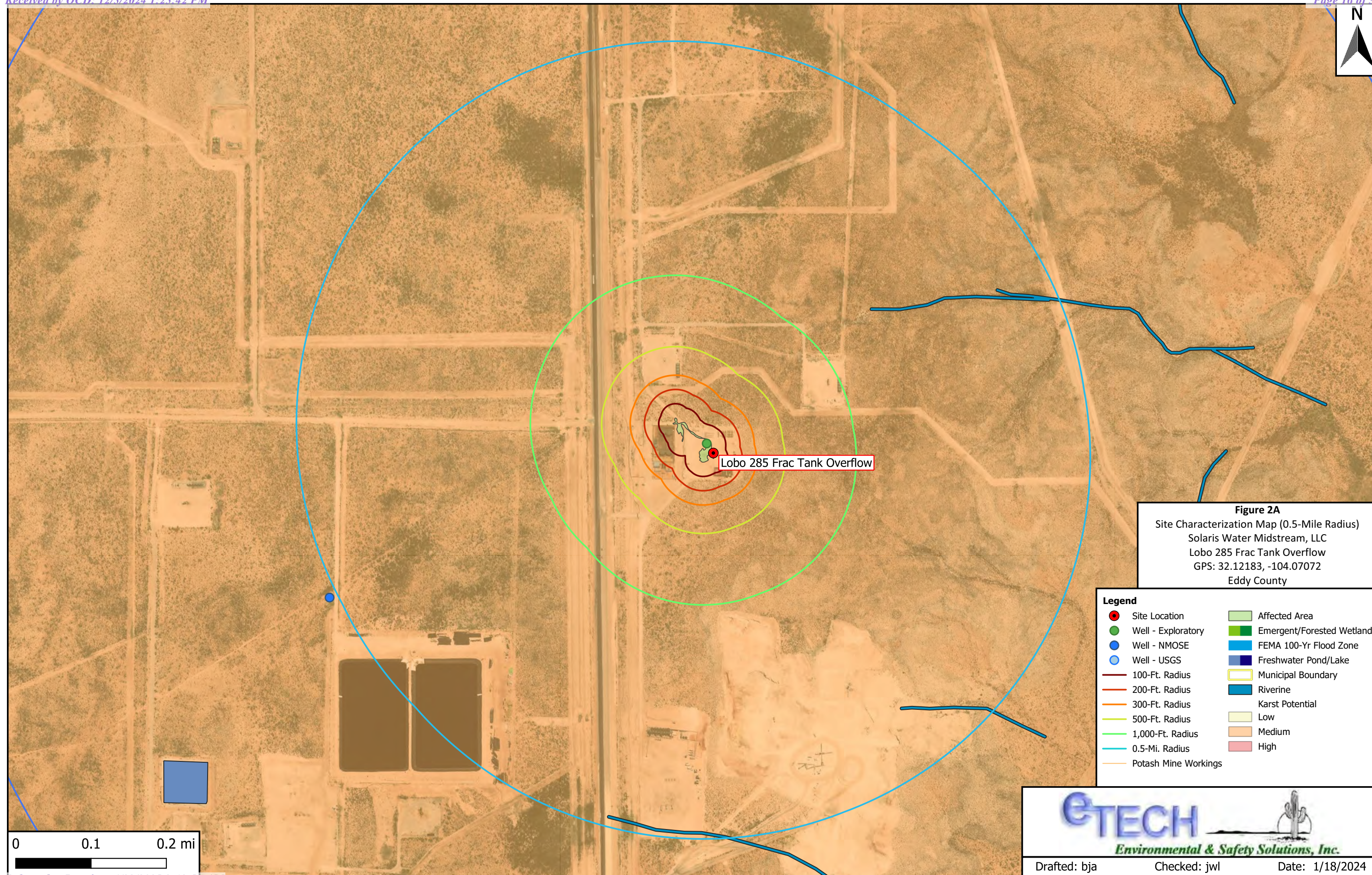
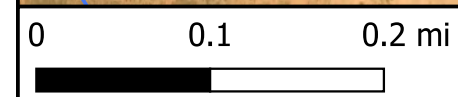
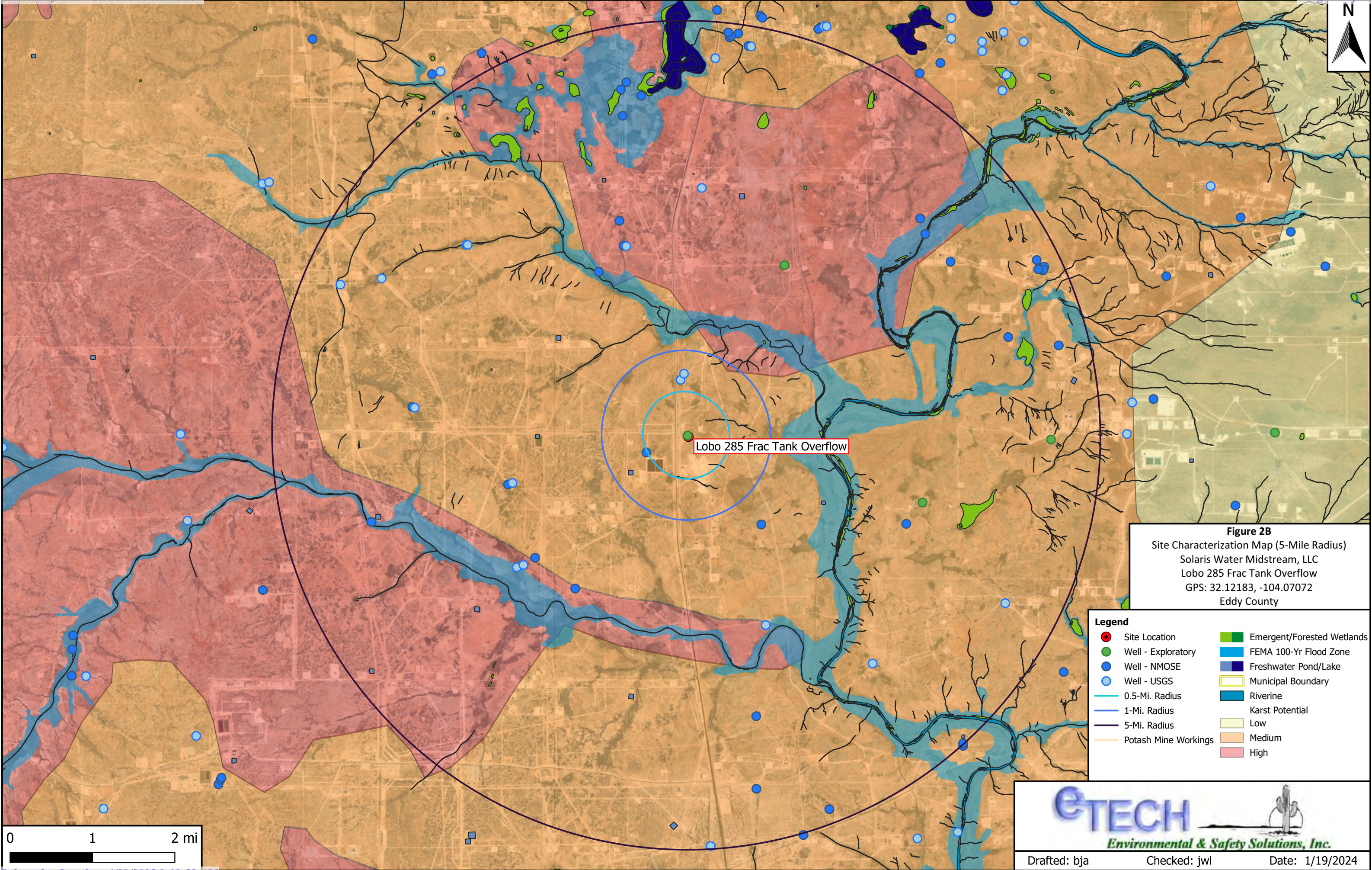


Figure 2A
Site Characterization Map (0.5-Mile Radius)
Solaris Water Midstream, LLC
Lobo 285 Frac Tank Overflow
GPS: 32.12183, -104.07072
Eddy County

Legend	
Site Location	Affected Area
Well - Exploratory	Emergent/Forested Wetlands
Well - NMOSE	FEMA 100-Yr Flood Zone
Well - USGS	Freshwater Pond/Lake
100-Ft. Radius	Municipal Boundary
200-Ft. Radius	Riverine
300-Ft. Radius	Karst Potential
500-Ft. Radius	Low
1,000-Ft. Radius	Medium
0.5-Mi. Radius	High
Potash Mine Workings	





Figures 3A & 3B

Sample Location Maps



Legend

- Sample Location
- Release Area

Figure 3A

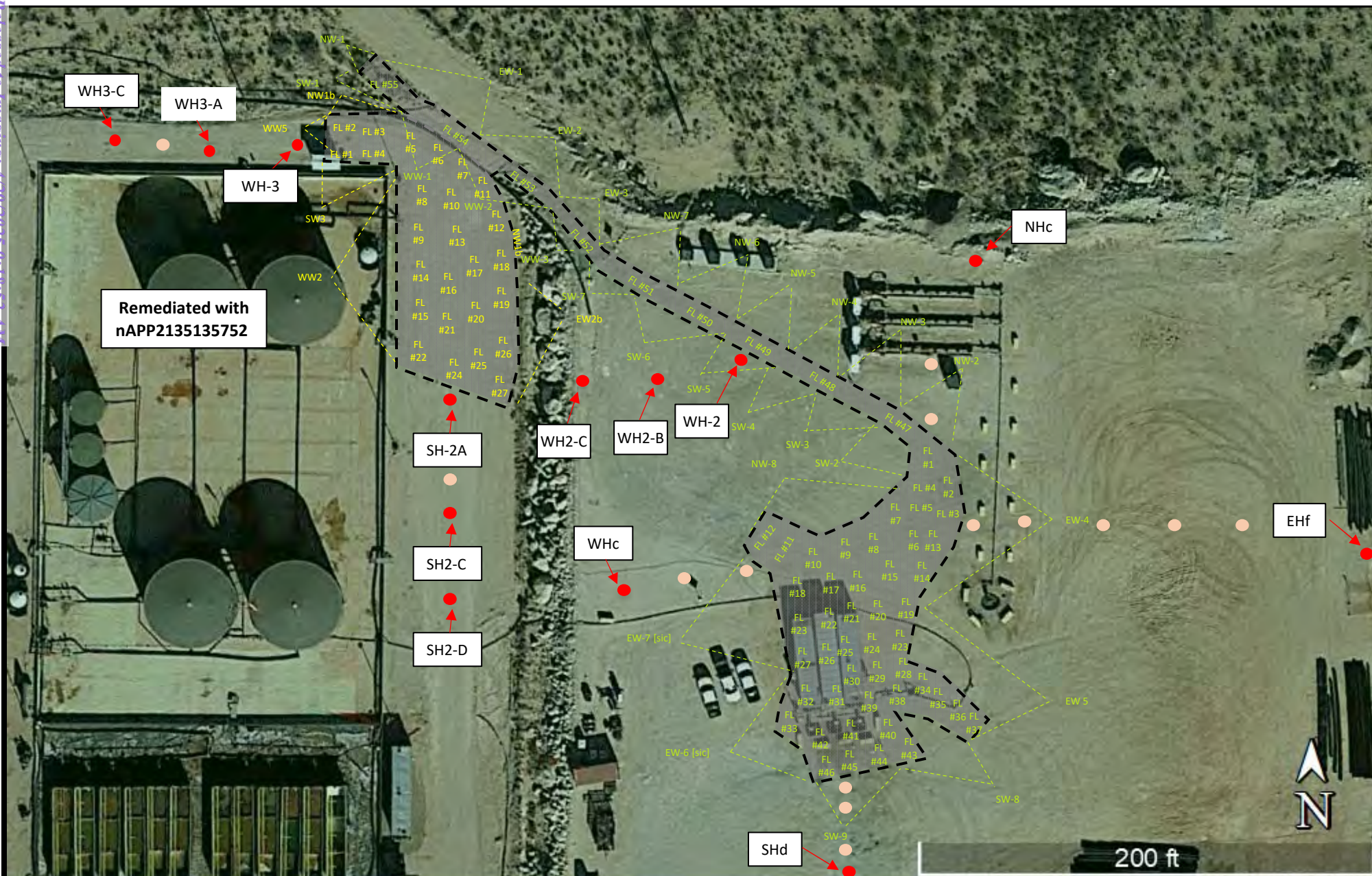
Sample Location Map (Delineation)
Solaris Water Midstream, LLC
Lobo 285 Frac Tank Overflow
GPS: 32.122023, -104.07183
Eddy County

eTECH
Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl

Date: 10/5/22



Legend:

- Sample Point
- Field Sample Point
- Excavated Area
- Composite Sample Location

Figure 3B

Sample Location Map (Excavation)
 Solaris Water Midstream, LLC
 Lobo 285 Frac Tank Overflow
 GPS: 32.122023, -104.07183
 Eddy County



Drafted: jwl

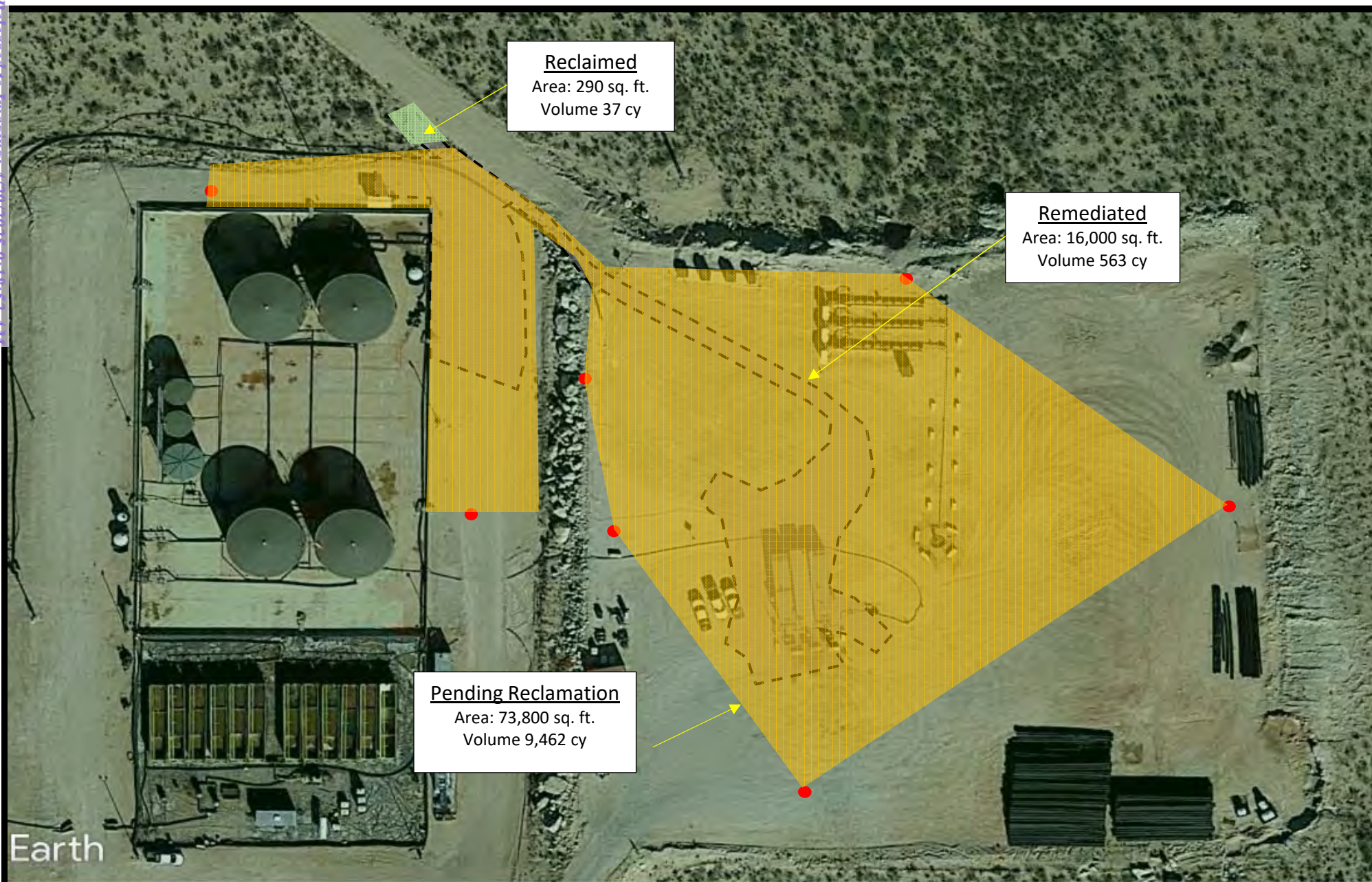
Revised: bja

Date:

1/25/24

Figure 4

Reclamation Map



Legend:

- Remediated Area
- Reclaimed Area
- Area in Need of Reclamation

Figure 4

Reclamation Map
Solaris Water Midstream, LLC
Lobo 285 Frac Tank Overflow
GPS: 32.122023, -104.07183
Eddy County



Drafted: jwl

Checked: bja

Date: 12/12/23

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Solaris Water Midstream, LLC Lobo 285 Frac Tank Overflow NMOCD Ref. #: nAPP2221532955											
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 Soil Samples											
V1 @ 6"	8/9/2022	0.5	Excavated	0.299	80.3	1,460	6,160	7,620	1,470	9,090	8,930
V1 @ 3'	9/28/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
V2 @ 6"	8/9/2022	0.5	Excavated	2.47	412	5,550	9,250	14,800	1,940	16,700	192
V3 @ 6"	8/9/2022	0.5	Excavated	1.73	390	6,820	17,800	24,600	3,860	28,500	8,880
V3 @ 4'	9/28/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
V4 @ 6"	8/9/2022	0.5	Excavated	1.65	219	4,200	37,300	41,500	10,600	52,100	16,600
V4 @ 4'	9/28/2022	4	In-Situ	<0.050	4.45	73.3	449	522	80.1	602	272
V4 @ 6'	9/28/2022	6	In-Situ	<0.050	<0.300	<10.0	91.6	91.6	25.5	117	48.0
NHc	10/29/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	71.2	71.2	21.5	92.7	144
EHf	10/29/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	73.7	73.7	23.4	97.1	144
SHd	10/29/2023	0-0.5	In-Situ	<0.050	0.524	<10.0	66.4	66.4	23.7	90.1	128
SH-2A	11/16/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	187	187	72.5	260	5,200
SH2-C	11/21/2023	0-0.5	In-Situ	-	-	<10.0	31.5	31.5	16.3	47.8	928
SH2-D	12/6/2023	0-0.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	160
WHc	10/29/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	88.7	88.7	29.1	118	128
WH-2	11/16/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	220	220	86.5	307	5,040
WH2-B	11/21/2023	0-0.5	In-Situ	-	-	<10.0	102	102	35.4	137	656
WH2-C	12/6/2023	0-0.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	176
WH-3	11/16/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	144	144	51.2	195	5,840
WH3-A	11/21/2023	0-0.5	In-Situ	-	-	<10.0	24.3	24.3	<10.0	24.3	1,330
WH3-C	12/6/2023	0-0.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	160
Excavation Confirmation Soil Samples											
FL 1 @ 6 In	10/19/2023	0.5	In-Situ	<0.050	<0.300	<10.0	14.0	14.0	<10.0	14.0	6,530
FL 2 @ 6 In	10/19/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,800
FL 3 @ 6 In	10/19/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,800
FL 4 @ 6 In	10/19/2023	0.5	In-Situ	<0.050	1.28	32.3	606	638	179	817	8,000
FL 5 @ 6 In	10/19/2023	0.5	In-Situ	<0.050	2.52	14.5	376	391	101	492	6,100
FL 6 @ 6 In	10/19/2023	0.5	In-Situ	<0.050	0.308	17.3	287	304	52.2	357	5,040
FL 7 @ 6 In	10/19/2023	0.5	Excavated	<0.050	2.25	49.0	898	947	277	2,170	8,530
FL 7 @ 1 Ft	10/24/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,600
FL 8 @ 6 In	10/19/2023	0.5	In-Situ	<0.050	0.415	<10.0	362	362	116	478	10,500
FL 9 @ 6 In	10/19/2023	0.5	In-Situ	<0.050	0.319	<10.0	389	389	97.6	487	10,700
FL 10 @ 6 In	10/23/2023	0.5	In-Situ	<0.050	<0.300	<10.0	57.9	57.9	23.2	81.1	11,800
FL 11 @ 6 In	10/23/2023	0.5	In-Situ	<0.050	<0.300	<10.0	194	194	25.4	219	14,800
FL 12 @ 6 In	10/23/2023	0.5	In-Situ	<0.050	<0.300	<10.0	24.1	24.1	<10.0	24.1	6,800
FL 13 @ 6 In	10/23/2023	0.5	In-Situ	<0.050	<0.300	<10.0	230	230	58.9	289	2,320
FL 14 @ 6 In	10/23/2023	0.5	Excavated	<0.050	1.64	35.3	3,490	3,530	1,080	4,610	1,160
FL #14	10/31/2023	1	In-Situ	<0.050	<0.300	<10.0	75.8	75.8	53.9	130	7,520
FL 15 @ 6 In	10/23/2023	0.5	In-Situ	<0.050	<0.300	<10.0	15.2	15.2	18.2	33.4	2,480
FL 16 @ 6 In	10/23/2023	0.5	In-Situ	<0.050	1.36	24.1	950	974	232	1,210	10,200
FL 17 @ 6 In	10/23/2023	0.5	Excavated	<0.050	0.489	24.3	1,510	1,530	371	1,910	6,000
FL #17	10/31/2023	1	In-Situ	<0.050	<0.300	<10.0	43.8	43.8	<10.0	43.8	8,500
FL 18 @ 6 In	10/23/2023	0.5	Excavated	<0.200	51.1	695	4,050	4,750	1,010	5,760	9,400
FL #18	10/31/2023	1	In-Situ	<0.050	<0.300	<10.0	37.9	37.9	<10.0	37.9	8,130

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

Bold Text: NMOCD Closure Criteria exceedance.

Red Text: NMOCD Reclamation Standard exceedance.

Red-outlined Cell: Highest observable concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Solaris Water Midstream, LLC Lobo 285 Frac Tank Overflow NMOCD Ref. #: nAPP2221532955											
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 19 @ 6 In	10/23/2023	0.5	Excavated	<0.200	48.8	711	4,700	5,410	1,300	6,710	9,600
FL #19	10/31/2023	1	In-Situ	<0.050	<0.300	<10.0	46.1	46.1	<10.0	46.1	8,660
FL 20 @ 6 In	10/23/2023	0.5	Excavated	<0.100	33.1	869	7,980	8,850	1,800	10,600	9,060
FL #20	10/31/2023	1	Excavated	<1.00	138	1,690	4,380	6,070	1,110	7,180	6,640
FL #20	11/2/2023	1.5	Excavated	<0.050	15.3	425	2,660	3,090	601	3,690	1,550
FL 20	11/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	864
FL 21 @ 6 In	10/23/2023	0.5	Excavated	<0.200	91.2	936	3,420	4,360	862	5,220	7,460
FL #21	10/31/2023	1	Excavated	<1.00	113	1,300	3,870	5,170	1,050	6,220	6,560
FL #21	11/2/2023	1.5	Excavated	<0.500	75.8	2,070	5,950	8,020	1,260	9,280	2,640
FL 21	11/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	928
FL 22 @ 6 In	10/24/2023	0.5	In-Situ	<0.050	<0.300	<10.0	348	348	122	470	10,400
FL 23 @ 6 In	10/24/2023	0.5	In-Situ	<0.050	<0.300	<10.0	25.3	25.3	<20.0	25.3	4,160
FL 24 @ 6 In	10/24/2023	0.5	Excavated	<0.200	34.8	862	8,780	9,640	1,880	11,500	8,240
FL #24 @ 1	10/31/2023	1	Excavated	<0.200	76.8	1,170	3,440	4,610	952	5,560	6,000
FL 24	11/2/2023	1.5	Excavated	<0.050	6.02	131	956	1,090	217	1,300	2,400
FL 24	11/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,280
FL 25 @ 6 In	10/24/2023	0.5	Excavated	0.277	97.8	1,450	7,120	8,570	1,590	10,200	10,300
FL #25	10/31/2023	1	Excavated	<0.100	49.3	836	2,940	3,780	868	4,640	7,760
FL 25	11/2/2023	1.5	Excavated	<0.500	86.8	2,460	6,700	9,160	1,390	10,600	2,080
FL 25	11/6/2023	2	In-Situ	<0.050	<0.300	24.7	171	196	13.0	209	1,200
FL #26	10/31/2023	0.5	In-Situ	<0.050	1.87	60.8	789	850	232	1,080	10,800
FL #27	10/31/2023	0.5	In-Situ	<0.050	2.90	60.1	736	796	191	987	10,100
FL 28 @ 6 In	10/24/2023	0.5	Excavated	<0.050	8.57	154	3,970	4,120	1,370	5,490	16,400
FL 28 @ 1	11/1/2023	1	Excavated	<0.100	48.1	1,060	4,550	5,610	965	6,580	3,680
FL 28	11/2/2023	1.5	Excavated	<0.500	86.5	1,520	3,670	5,190	777	5,970	1,840
FL 28	11/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	688
FL 29 @ 6 In	10/24/2023	0.5	Excavated	<0.050	1.91	161	1,880	2,040	468	2,510	5,840
FL 29 @ 1	11/1/2023	1	Excavated	<0.100	51.9	944	4,090	5,030	841	5,880	3,840
FL 29	11/2/2023	1.5	Excavated	<0.500	41.6	586	1,580	2,170	363	2,530	960
FL 29	11/6/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	688
FL 30 @ 6 In	10/24/2023	0.5	Excavated	<0.200	60.6	1,350	7,060	8,410	1,560	9,970	6,560
FL 30 @ 1	11/1/2023	1	In-Situ	<0.050	1.30	18.2	362	380	97.7	478	9,800
FL 31 @ 6 In	10/24/2023	0.5	Excavated	<0.050	141	3,350	7,170	10,500	1,480	12,000	8,660
FL 31 @ 1	11/1/2023	1	In-Situ	<0.050	1.24	23.2	462	485	117	602	10,400
FL #32 @ 6 In	10/29/2023	0.5	Excavated	<0.050	20.3	623	3,120	3,740	718	4,460	2,000
FL 32	11/2/2023	1	Excavated	0.606	138	2,200	5,640	7,840	1,070	8,910	2,000
FL 32	11/6/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,040
FL #33 @ 6 In	10/29/2023	0.5	Excavated	<0.050	21.2	737	3,050	3,790	701	4,490	1,520
FL 33	11/2/2023	1	Excavated	<0.050	8.28	158	1,080	1,240	247	1,490	2,800
FL 33	11/6/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
FL #34 @ 6 In	10/29/2023	0.5	Excavated	<0.050	19.5	565	2,950	3,520	688	4,200	1,870
FL 34	11/2/2023	1	Excavated	<0.050	4.99	182	1,180	1,360	268	1,630	3,080
FL 34	11/6/2023	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,140
FL #35 @ 6 In	10/26/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,440
FL #36 @ 6 In	10/26/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,380

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

Bold Text: NMOCD Closure Criteria exceedance.

Red Text: NMOCD Reclamation Standard exceedance.

Red-outlined Cell: Highest observable concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Solaris Water Midstream, LLC Lobo 285 Frac Tank Overflow NMOCD Ref. #: nAPP2221532955											
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 #37 @ 6 In	10/26/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL #38 @ 6 In	10/26/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL #39 @ 6 In	10/26/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL #40 @ 6 In	10/27/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	944
FL #41 @ 6 In	10/27/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	816
FL #42 @ 6 In	10/27/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
FL #43 @ 6 In	10/27/2023	0.5	In-Situ	<0.050	<0.300	<10.0	10.4	10.4	<10.0	10.4	800
FL #44 @ 6 In	10/27/2023	0.5	In-Situ	<0.050	<0.300	<10.0	15.4	15.4	<10.0	15.4	2,030
FL #45 @ 6 In	10/27/2023	0.5	In-Situ	<0.050	<0.300	<10.0	10.5	10.5	<10.0	10.5	2,030
FL #46 @ 6 In	10/27/2023	0.5	In-Situ	<0.050	<0.300	<10.0	14.4	14.4	<10.0	14.4	2,000
FL #47 @ 0-3 In	10/26/2023	0.25	Excavated	<0.050	22.6	734	5,290	6,020	1,550	7,570	1,280
FL #47 @ 6 In	10/27/2023	0.5	Excavated	<0.050	<0.300	<10.0	11.4	11.4	<10.0	11.4	2,240
FL 47 @ 1	11/1/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,680
FL #48 @ 0-3 In	10/26/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,680
FL #49 @ 0-3 In	10/26/2023	0-0.25	In-Situ	<0.050	0.723	11.1	185	196	21.4	218	6,960
FL #50 @ 0-3 In	10/26/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,900
FL #51 @ 0-3 In	10/26/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	180	180	45.9	226	3,680
FL #52 @ 0-3 In	10/26/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	103	103	11.3	114	2,080
FL #53 @ 2'	10/26/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL #54 @ 4 Ft	10/26/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,600
FL #55 @ 2-4 Ft	10/27/2023	2-4	In-Situ	<0.050	<0.300	<10.0	77.4	77.4	<10.0	77.4	128
NW-1	10/26/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
NW-2	10/27/2023	0-1	In-Situ	<0.050	<0.300	<10.0	373	373	121	494	2,600
NW-3	10/27/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	416	416	137	553	2,920
NW-4	10/27/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	198	198	68.4	266	2,840
NW-5	10/27/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	98.6	98.6	25.4	124	2,680
NW-6	10/27/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	289	289	98.1	387	8,800
NW-7	10/27/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,220
NW-8	10/29/2023	0-1	In-Situ	<0.050	<0.300	<10.0	111	111	38.9	150	2,880
EW-1	10/26/2023	0-4	In-Situ	<0.050	<0.300	<10.0	19.8	19.8	<10.0	19.8	96.0
EW-2	10/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
EW-3	10/27/2023	0-2	In-Situ	<0.050	<0.300	<10.0	97.2	97.2	19.0	116	160
EW-4	10/29/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	153	153	57.0	210	3,280
EW-5	10/29/2023	0-2	In-Situ	<0.050	<0.300	<10.0	133	133	50.3	183	3,200
EW-6	10/29/2023	0-1.5	Excavated	<0.050	<0.300	138	2,270	2,410	588	3,000	1,880
EW-6	11/2/2023	0-1.5	Excavated	<0.500	47.8	425	1,060	1,490	221	1,710	1,020
EW 6	11/6/2023	0-1.5	In-Situ	<0.050	<0.300	<10.0	138	138	32.5	171	2,240
EW-7	10/29/2023	0-1	Excavated	<0.050	<0.300	151	2,540	2,690	678	3,370	1,640
EW-7	11/2/2023	0-1	Excavated	<0.500	44.0	483	1,270	1,750	266	2,020	1,090
EW 7	11/6/2023	0-1	In-Situ	<0.050	<0.300	<10.0	258	258	133	391	1,620
SW-1	10/26/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
SW-2	10/27/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	500	500	171	671	3,120
SW-3	10/27/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	579	579	200	779	2,720
SW-4	10/27/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	199	199	73.4	272	2,880
SW-5	10/27/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	176	176	58.9	235	1,960

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

Bold Text: NMOCD Closure Criteria exceedance.

Red Text: NMOCD Reclamation Standard exceedance.

Red-outlined Cell: Highest observable concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Solaris Water Midstream, LLC Lobo 285 Frac Tank Overflow NMOCD Ref. #: nAPP2221532955											
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-6	10/27/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	271	271	94.2	365	10,100
SW-7	10/27/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,340
SW-8	10/29/2023	0-0.5	Excavated	<0.050	<0.300	105	1,760	1,870	467	2,330	1,550
SW-8B	11/1/2023	0-0.5	Excavated	<1.00	92.1	2,620	8,600	11,200	1,840	13,100	3,160
SW-8	11/3/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	122	122	22.6	145	2,200
SW-9	10/29/2023	0-0.5	Excavated	<0.050	<0.300	122	2,160	2,280	574	2,860	1,730
SW-9B	11/1/2023	0-0.5	Excavated	<1.00	113	2,910	7,500	10,400	1,750	12,200	3,040
SW-9	11/3/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	67.7	67.7	27.7	95.4	1,680
WW-1	10/26/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW-2	10/26/2023	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
WW-3	10/27/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	138	138	30.1	168	144
Excavation Confirmation Soil Samples - Remediated in nAPP2135135752											
FL #1 @ 3"	9/27/2023	0.25	In-Situ	<0.050	<0.300	<10.0	103	103	99.4	202	160
FL #2 @ 3"	9/27/2023	0.25	Excavated	<0.050	0.305	135	9,920	10,100	3,590	13,600	1,280
FL 2 @ 6 In	10/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL #3 @ 3"	9/27/2023	0.25	In-Situ	<0.050	<0.300	<10.0	88.5	88.5	61.3	150	560
FL #4 @ 3"	9/27/2023	0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL #5 @ 3"	9/27/2023	0.25	In-Situ	<0.050	<0.300	<10.0	227	227	168	395	1,040
FL 6 @ 3 In	10/9/2023	0.25	In-Situ	<0.050	<0.300	<10.0	294	294	71.4	365	9,330
FL 7 @ 3 In	10/9/2023	0.25	In-Situ	<0.050	<0.300	<10.0	269	269	149	418	144
FL #8 @ 3"	9/27/2023	0.25	Excavated	<0.050	<0.300	<10.0	1,510	1,510	68.5	1,580	8,800
FL 8 @ 6 In	10/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	656
FL #9 @ 3"	9/27/2023	0.25	In-Situ	<0.050	<0.300	<10.0	145	145	32.2	177	12,200
FL #10 @ 3"	9/27/2023	0.25	Excavated	<0.050	<0.300	<10.0	2,860	2,860	1,200	4,060	20,000
FL 10 @ 6 In	10/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FL #11 @ 3"	9/27/2023	0.25	Excavated	<0.050	0.789	<100	12,200	12,200	4,790	17,000	6,400
FL 11 @ 6 In	10/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL #12 @ 3"	9/27/2023	0.25	Excavated	<0.050	0.726	<100	14,600	14,600	5,680	20,300	5,040
FL 12 @ 6 In	10/6/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
FL #13 @ 3"	9/28/2023	0.25	Excavated	<0.050	<0.300	<10.0	4,580	4,580	1,860	6,440	8,800
FL 13 @ 6 In	10/9/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,000
FL #14 @ 3"	9/28/2023	0.25	In-Situ	<0.050	<0.300	<10.0	37.6	37.6	10.3	47.9	19,200
FL #15 @ 3"	9/28/2023	0.25	In-Situ	<0.050	<0.300	<10.0	44.1	44.1	24.0	68.1	6,400
FL #16 @ 3"	9/28/2023	0.25	Excavated	<0.050	<0.300	<10.0	3,040	3,040	1,370	4,410	10,000
FL 16 @ 6 In	10/9/2023	0.5	Excavated	<0.050	<0.300	86.2	1,330	1,420	361	1,780	1,360
FL 16 @ 1 Ft	10/13/2023	1	In-Situ	<0.050	<0.300	<10.0	17.7	17.7	<10.0	17.7	1,170
FL #17 @ 3"	9/28/2023	0.25	Excavated	<0.050	<0.300	13.1	6,110	6,120	2,110	8,230	16,400
FL 17 @ 6 In	10/9/2023	0.5	In-Situ	<0.050	<0.300	<10.0	13.3	13.3	<10.0	13.3	2,800
FL #18 @ 3"	9/28/2023	0.25	Excavated	<0.050	<0.300	21.8	6,350	6,370	2,150	8,520	3,200
FL 18 @ 6 In	10/9/2023	0.5	Excavated	<0.050	<0.300	94.2	1,670	1,760	438	2,200	2,200
FL 18 @ 1 Ft	10/13/2023	1	In-Situ	<0.050	<0.300	<10.0	46.5	46.5	165	63.0	2,200
FL #19 @ 3"	9/28/2023	0.25	Excavated	<0.050	0.649	<100	15,300	15,300	5,570	20,900	3,680
FL 19 @ 6 In	10/9/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,840
FL #20 @ 3"	9/28/2023	0.25	In-Situ	<0.050	<0.300	<10.0	39.4	39.4	<10.0	39.4	5,840
FL #21 @ 3"	9/28/2023	0.25	Excavated	<0.050	<0.300	<10.0	1,180	1,180	625	1,810	11,000

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

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Red Text: NMOCD Reclamation Standard exceedance.

Red-outlined Cell: Highest observable concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Solaris Water Midstream, LLC Lobo 285 Frac Tank Overflow NMOCD Ref. #: nAPP2221532955											
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 21 @ 6 In	10/9/2023	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,240
FL #22 @ 3"	9/28/2023	0.25	In-Situ	<0.050	<0.300	<10.0	151	151	66.2	217	2,320
FL #24 @ 3"	9/28/2023	0.25	In-Situ	<0.050	<0.300	<10.0	377	377	273	650	6,800
FL #25 @ 3"	9/28/2023	0.25	Excavated	<0.050	<0.300	<10.0	2,680	2,680	1,230	3,910	21,600
FL 25 @ 1 Ft	10/9/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,640
FL #26 @ 3"	9/28/2023	0.25	Excavated	<0.050	<0.300	<10.0	3,400	3,400	1,390	4,790	15,600
FL 26 @ 1 Ft	10/9/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,000
FL #27 @ 3"	9/28/2023	0.25	Excavated	<0.050	<0.300	<10.0	2,050	2,050	840	2,890	4,640
FL 27 @ 1 Ft	10/9/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,880
NW1	10/9/2023	0-0.5	Excavated	<0.050	<0.300	<10.0	33.8	33.8	15.4	49.2	22,800
NW1B	10/13/2023	0-0.5	In-Situ	<0.050	<0.300	<10.0	15.7	15.7	<10.0	15.7	992
EW2	10/9/2023	0-1	Excavated	<0.050	<0.300	<10.0	118	118	58.3	176	26,800
EW2B	10/13/2023	0-1	In-Situ	<0.050	<0.300	<10.0	23.7	23.7	<10.0	23.7	1,920
SW3	10/13/2023	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
WW2	10/9/2023	0-1	In-Situ	<0.050	<0.300	<10.0	276	276	151	427	5,680
WW5	10/13/2023	0-0.25	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240

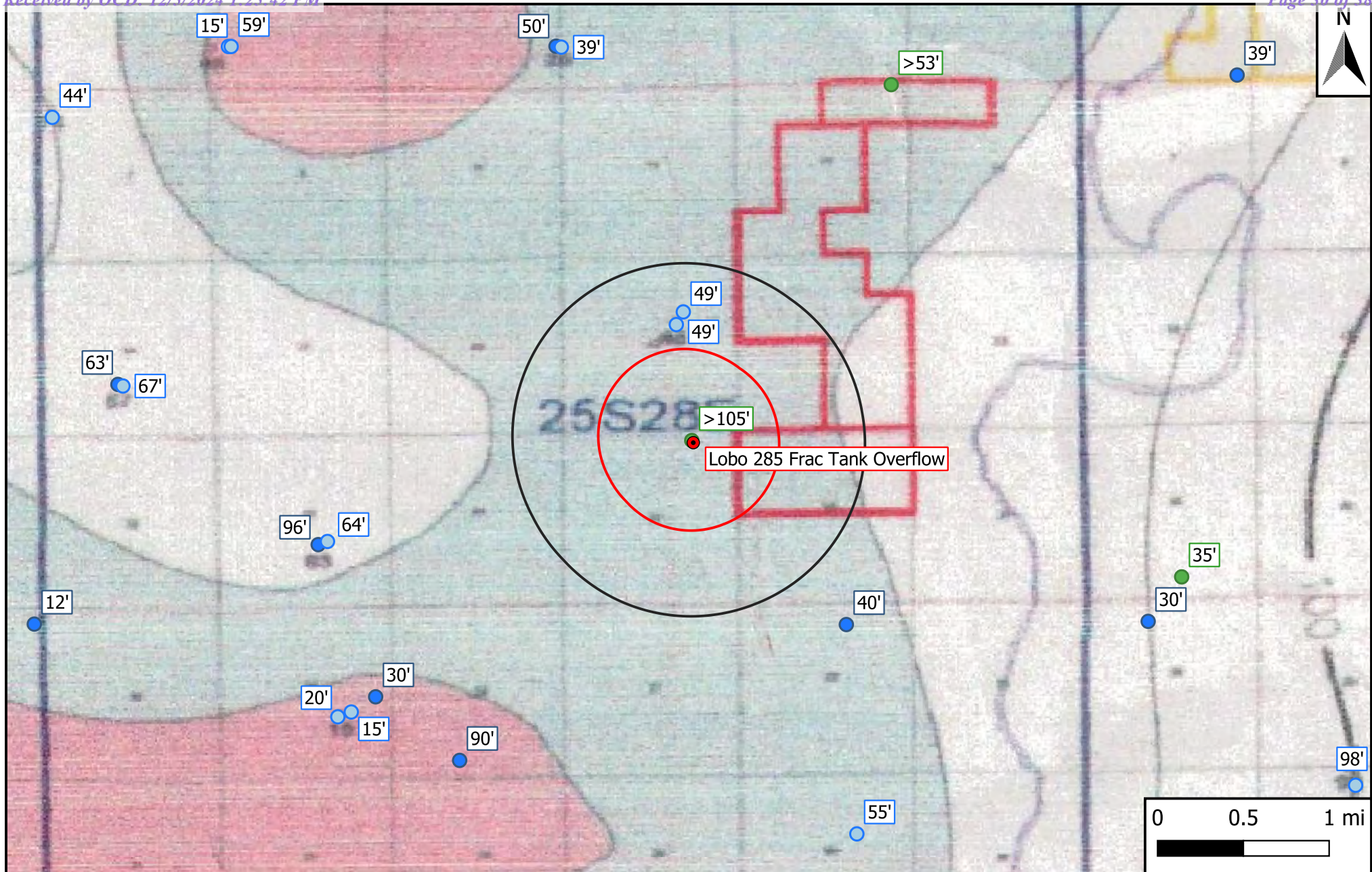
Dash (-): Sample not analyzed for that constituent.

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

Red-outlined Cell: Highest observable concentration.

Appendix A

Depth to Groundwater Information



Legend

- Site Location
- Well - Exploratory
- Well - NMOSE
- Well - USGS
- 0.5-Mi. Radius
- 1-Mi. Radius

Figure 5

Inferred Depth to Groundwater Map
 Solaris Water Midstream, LLC
 Lobo 285 Frac Tank Overflow
 GPS: 32.12183, -104.07072
 Eddy County



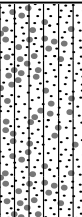

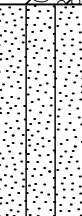

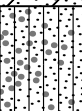



Drafted: bja

Checked: jwl

Date: 1/18/24



Soil Boring/Temporary Monitor Well SB-1

Company: Solaris Water Midstream, LLC Site: Lobo 285 SWD Water Reuse NMOCD Reference #: nAPP2135135752 Location: Eddy Co., NM PLSS: U/L "A", Sec. 22, T25S, R28E			Well/Borehole ID: SB-1 Coordinates (NAD 83): 32.121596,-104.072229 Drilling Date: 6/15/2022 Depth of Boring (ft): 105 Depth to Groundwater (ft): >105 Plugging Date: 6/20/2022			Drilling Company: Vision Resources Driller: Jason Maley (NM License #1833) Drilling Method: Air Rotary Logged By: Jason Maley Drafted By: B.J. Arguijo Draft Date: 8/2/2023		
Completion: N/A			Casing: N/A			Screen: N/A		
Comments: N/A								
Depth (ft)	Groundwater	Lithology	Material Description	Petroleum Odor	Petroleum Stain	PID Reading	Well Construction	
5			Silty sand with gravel, light brown	-	-	-		
10				-	-	-		
15				-	-	-		
20				-	-	-		
25			Small gravel with clay, light brown	-	-	-		
30				-	-	-		
35			Silty sand, light brown	-	-	-		
40				-	-	-		
45				-	-	-		
50				-	-	-		
55				Clay with sand, light brown	-	-		
60				-	-	-		
65				-	-	-		
70				-	-	-		
75			Fine sand with silty sand and trace clay, light brown	-	-	-		
80				-	-	-		
85			Very fine sand with silty sand and trace gravel, brown	-	-	-		
90				-	-	-		
95			Sand with clay, light brown	-	-	-		
100			-	-	-			
105			Clay with silty sand, light brown	-	-	-		
110			<div>Notes: • Lines between material types represent approximate boundaries. Actual transitions may be gradual. • The exploratory soil boring was left open for 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring.</div>					
115								

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



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															Water	
POD Number	Code	Sub-basin	County	Q 6	Q 1	Q 2	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Column			
C_04660	POD1	CUB	ED	2	1	2	22	25S	28E	587519	3554290		145	105				
C_01522		C	ED				1	22	25S	28E	586843	3554004*		876	150			
C_01453		C	ED		1	2	26	25S	28E	589096	3552612*		2229	70	40	30		
Average Depth to Water:															40 feet			
Minimum Depth:															40 feet			
Maximum Depth:															40 feet			

Record Count:3

UTMNAD83 Radius Search (in meters):

Easting (X): 587661

Northing (Y): 3554317.77

Radius: 3220

*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.

8/21/23 3:50 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04660 POD1	2	1	2	22	25S	28E	587519	3554290

Driller License: 1833	Driller Company: VISION RESOURCES, INC	
Driller Name: MALEY, JASON ASTR.L.NER		
Drill Start Date: 06/15/2022	Drill Finish Date: 06/15/2022	Plug Date: 06/20/2022
Log File Date: 06/05/2023	PCW Rcv Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well: 105 feet	Depth Water:

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

8/21/23 3:52 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	Tw	Rng	X	Y
	C 01522			1	22	25S	28E	586843	3554004*

X

Driller License:	30	Driller Company:	BARRON, EMMETT		
Driller Name:	BARRON, EMMETT				
Drill Start Date:	07/15/1974	Drill Finish Date:	09/10/1974		Plug Date:
Log File Date:	10/03/1974	PCW Rcv Date:	Source:		
Pump Type:		Pipe Discharge Size:	Estimated Yield:		
Casing Size:		Depth Well:	150 feet		Depth Water:

*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.



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag**POD Number****Q64 Q16 Q4 Sec TwS Rng****X****Y**

C 01453

1 2 26 25S 28E

589096

3552612*

**Driller License:** 30**Driller Company:** BARRON, EMMETT**Driller Name:** BARRON, EMMETT**Drill Start Date:** 07/17/1971**Drill Finish Date:** 07/20/1971**Plug Date:****Log File Date:** 08/02/1971**PCW Rev Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:** 6.00**Depth Well:** 70 feet**Depth Water:** 40 feet**Water Bearing Stratifications:****Top Bottom Description**

50

70

Shale/Mudstone/Siltstone

*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.

1/11/22 2:35 PM

POINT OF DIVERSION SUMMARY



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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Important:

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320749104041001

Minimum number of levels = 1

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

USGS 320749104041001 25S.28E.15.23000

Eddy County, New Mexico
Latitude 32°07'54.6", Longitude 104°04'20.3" NAD83
Land-surface elevation 2,949.30 feet above NGVD29
The depth of the well is 70 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1975-12-09			D 72019	48.50			1	Z			A
1976-01-16			D 72019	48.66			1	Z			A
1977-01-14			D 72019	48.93			1	Z			A
1978-02-23			D 72019	49.79			1	Z			A
1983-02-01			D 72019	46.67			1	Z			A
1987-10-14			D 72019	45.03			1	Z			A
1992-11-04			D 72019	47.95			P	S			A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1998-01-23		D	72019	49.94			1	S			A
2003-01-27		D	72019	49.87			1	S	USGS	S	A
2013-01-10	18:45 UTC	m	72019	49.43			1	S	USGS	S	A

Explanation

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

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USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320758104041601

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

USGS 320758104041601 25S.28E.15.23231

Eddy County, New Mexico
Latitude 32°07'58", Longitude 104°04'16" NAD27
Land-surface elevation 2,962 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1948-12-06		D	72019	48.85			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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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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



Page Contact Information: USGS Water Data Support Team

Page Last Modified: 2023-08-21 17:48:02 EDT

0.3 0.26 nadww01



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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:
Groundwater

Geographic Area:
United States

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Groundwater levels for the Nation

Important:

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320649104062401

Minimum number of levels = 1

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

USGS 320649104062401 25S.28E.20.41321

Eddy County, New Mexico
Latitude 32°06'49", Longitude 104°06'24" NAD27
Land-surface elevation 3,007 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1983-10-07		D	72019	63.80			1	Z			A
1987-10-13		D	72019	63.04			1	Z			A
1992-11-03		D	72019	63.20			1	S			A
1998-01-23		D	72019	63.89			1	S			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	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



9/28/22

Project Number: 16453

Latitude: ~~32.472935~~

Longitude: ~~-103.216814~~

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 1 @ Lin	—	4448	
FL 2 @ Lin	—	3,768	
FL 3 @ Lin	—	7,024	
FL 4 @ Lin	—	5,660	
FL 5 @ Lin	—	6,124	
FL 6 @ Lin	—	4448	
FL 7 @ Lin	—	8380	
FL 8 @ Lin	—	9081	
FL 9 @ Lin	—	9851	
FL 10 @ Lin	—	9852	
FL 11 @ Lin	—	15,716	
FL 12 @ Lin	—	5,660	
FL 13 @ Lin	—	1,764	
FL 14 @ Lin	—	10,577	
FL 15 @ Lin	—	2,896	
FL 16 @ Lin	—	10,764	
FL 17 @ Lin	—	6,624	
FL 18 @ Lin	—	11,632	
FL 19 @ Lin	—	11,632	
FL 20 @ Lin	—	11,028	
FL 21 @ Lin	—	11,028	
FL 22 @ Lin	—	13,356	
FL 23 @ Lin	—	5,164	
FL 24 @ Lin	—	9,084	
FL 25 @ Lin	—	13,864	
FL 26 @ Lin	High	5,724	
FL 27 @ Lin	High	11,632	
FL 28 @ Lin	—	7,164	
FL 29 @ Lin	High	18,624	
FL 30 @ Lin	High	7,752	
FL 31 @ Lin	High	6,624	
FL 32 @ Lin	—	10,692	
FL 33 @ Lin	—	6,624	
FL 34 @ Lin	—	7,164	
FL 35 @ Lin	—	10,692	
FL 36 @ Lin	—	9,852	

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 47 @ 3-3in	—	2,896	
FL 48 @ 3-3in	—	2,896	
FL 49 @ 3-3in	—	3,852	
FL 50 @ 3-3in	—	5,216	
FL 51 @ 3-3in	—	4,448	
FL 52 @ 3-3in	—	3,456	
FL 36 @ 6in	—	1,984	
FL 53 @ 2ft	—	120	
NW-1	—	176	
FW-1	—	176	
FL #37 @ 6in	—	832	
FL 38 @ 6in	—	1,124	
FL 39 @ 6in	—	1,124	
FL 54 @ 2ft	—	964	
NW-1	—	1,816	
SW-1	—	1,292	
FW-2	—	1,292	
NW-2	—	1,292	
FL 54 @ 3 ft	—	964	
FL 54 @ 3ft+4	—	1,292	
NW-1	—	708	
SW-1	—	708	
FW-2	—	832	
NW-2	—	832	
NW-1	—	4,441	
SW-1	—	920	
FW-2	—	444	
NW-2	—	592	
SW-1	—	444	
FL 40 @ 6in	—	1,048	
FL 41 @ 6in	—	1,292	
FL 42 @ 6in	—	832	
FL 43 @ 6in	—	1,048	
FL 44 @ 6in	—	1,418	
FL 45 @ 6in	—	1,292	
FL 46 @ 6in	—	1,816	

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



Date: _____

Project Number: 16409 Latitude: 32.122023 Longitude: -104.07183

GPS Sample Points, Center of Comp Areas

Appendix C

Photographic Log

Photographic Log



Photographic Log

Photo Number: 3	 <p>Aug 3, 2022 at 1:11:44 PM +32.122097,-104.070984 154° SE Eddy County</p> <p>A photograph showing a large, dark, irregular spill on a light-colored dirt surface. The spill is in the foreground and middle ground, extending towards the background. In the background, there are industrial structures, including a large white tank and a yellow building. A compass rose in the top left corner indicates the photo was taken from a South-Southeast direction.</p>
Photo Direction: South-Southeast	
Photo Description: View of the affected area.	

Photo Number: 4	 <p>Aug 3, 2022 at 1:11:02 PM +32.122271,-104.071251 117° SE Eddy County</p> <p>A photograph showing a large, dark, irregular spill on a light-colored dirt surface. The spill is in the foreground and middle ground, extending towards the background. In the background, there are industrial structures, including a large white tank and a yellow building. A compass rose in the top left corner indicates the photo was taken from an East-Southeast direction.</p>
Photo Direction: East-Southeast	
Photo Description: View of the affected area.	

Photographic Log

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

Photo Number: 6	
Photo Direction: South-Southeast	
Photo Description: View of the Commingled Area.	


Photographic Log

Photo Number: 7	<div>Nov 1, 2023 at 11:05:18 AM +32.121723,-104.071034 319° NW Malaga NM 88263 United States</div> 
Photo Direction: Northwest	
Photo Description: View of the excavated area.	

Photo Number: 8	<div>Nov 1, 2023 at 11:05:58 AM +32.121702,-104.070804 336° NW Malaga NM 88263 United States</div> 
Photo Direction: North-Northwest	
Photo Description: View of the excavated area.	


Photographic Log

Photo Number: 9	 <p>Nov 1, 2023 at 11:07:09 AM +32.122063,-104.070775 266° W Malaga NM 88263 United States</p>
Photo Direction: West	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>Nov 1, 2023 at 11:08:10 AM +32.122239,-104.071280 260° W Malaga NM 88263 United States</p>
Photo Direction: West	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	
Photo Direction: West	
Photo Description: View of the excavated area.	

Photo Number: 12	
Photo Direction: North	
Photo Description: View of the excavation in the Commingled Area.	

Photographic Log


Photo Number: 13	 <p>Nov 8, 2023 at 2:31:29 PM +32.121645,-104.070987 9° N Altitude:916.1meter Speed:1.8km/h</p>
Photo Direction: North	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 14	 <p>Nov 8, 2023 at 2:31:50 PM +32.121675,-104.070766 311° NW Altitude:917.2meter Speed:2.6km/h</p>
Photo Direction: Northwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log



Photo Number: 15	
Photo Direction: East-Southeast	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 16	
Photo Direction: Northwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photographic Log



Photo Number: 17	
Photo Direction: Northwest	
Photo Description: View of the remediated area after backfill and regrading.	

Photo Number: 18	
Photo Direction: North	
Photo Description: View of the remediated Commingled Area after backfill and regrading.	

Appendix D
Laboratory Analytical Reports
(nAPP2221532955)



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

July 27, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 "DRILLING TRUCK"

Enclosed are the results of analyses for samples received by the laboratory on 07/21/23 12:58.

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, 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: 07/21/2023
 Reported: 07/27/2023
 Project Name: LOBO 285 "DRILLING TRUCK"
 Project Number: 15510
 Project Location: RURAL EDDY COUNTY, NM

Sampling Date: 07/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 1 @ 30' (H233825-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/26/2023	ND	416	104	400	3.77	

Sample ID: BH 1 @ 35' (H233825-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/26/2023	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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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

August 12, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 FRAC TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 08/09/22 15:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/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 "Coley D. Keene". The signature is fluid and cursive, with the first name "Coley" 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: 08/09/2022
 Reported: 08/12/2022
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 08/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 1 @ 6" (H223566-01)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.299	0.200	08/11/2022	ND	1.84	91.9	2.00	1.32	
Toluene*	9.87	0.200	08/11/2022	ND	2.03	101	2.00	0.623	
Ethylbenzene*	7.15	0.200	08/11/2022	ND	1.93	96.7	2.00	0.504	
Total Xylenes*	63.0	0.600	08/11/2022	ND	6.06	101	6.00	0.718	
Total BTEx	80.3	1.20	08/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 219 % 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	8930	16.0	08/11/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1460	10.0	08/10/2022	ND	219	110	200	3.25	
DRO >C10-C28*	6160	10.0	08/10/2022	ND	218	109	200	7.18	
EXT DRO >C28-C36	1470	10.0	08/10/2022	ND					

Surrogate: 1-Chlorooctane 223 % 43-149

Surrogate: 1-Chlorooctadecane 126 % 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: 08/09/2022
 Reported: 08/12/2022
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 08/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 2 @ 6" (H223566-02)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.47	1.00	08/11/2022	ND	1.84	91.9	2.00	1.32	
Toluene*	66.4	1.00	08/11/2022	ND	2.03	101	2.00	0.623	
Ethylbenzene*	36.3	1.00	08/11/2022	ND	1.93	96.7	2.00	0.504	
Total Xylenes*	307	3.00	08/11/2022	ND	6.06	101	6.00	0.718	
Total BTEX	412	6.00	08/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 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	192	16.0	08/11/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5550	50.0	08/10/2022	ND	219	110	200	3.25	
DRO >C10-C28*	9250	50.0	08/10/2022	ND	218	109	200	7.18	
EXT DRO >C28-C36	1940	50.0	08/10/2022	ND					

Surrogate: 1-Chlorooctane 264 % 43-149

Surrogate: 1-Chlorooctadecane 155 % 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: 08/09/2022
 Reported: 08/12/2022
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 08/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 3 @ 6" (H223566-03)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.73	1.00	08/11/2022	ND	1.98	99.2	2.00	9.70	QM-07
Toluene*	48.2	1.00	08/11/2022	ND	2.08	104	2.00	9.65	QM-07
Ethylbenzene*	35.4	1.00	08/11/2022	ND	2.14	107	2.00	11.0	QM-07
Total Xylenes*	305	3.00	08/11/2022	ND	6.51	109	6.00	10.7	QM-07
Total BTEX	390	6.00	08/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 168 % 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	8880	16.0	08/11/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6820	50.0	08/10/2022	ND	219	110	200	3.25	
DRO >C10-C28*	17800	50.0	08/10/2022	ND	218	109	200	7.18	
EXT DRO >C28-C36	3860	50.0	08/10/2022	ND					

Surrogate: 1-Chlorooctane 389 % 43-149

Surrogate: 1-Chlorooctadecane 289 % 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: 08/09/2022
 Reported: 08/12/2022
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 08/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 4 @ 6" (H223566-04)

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.65	0.500	08/11/2022	ND	1.98	99.2	2.00	9.70	
Toluene*	37.6	0.500	08/11/2022	ND	2.08	104	2.00	9.65	
Ethylbenzene*	17.3	0.500	08/11/2022	ND	2.14	107	2.00	11.0	
Total Xylenes*	163	1.50	08/11/2022	ND	6.51	109	6.00	10.7	
Total BTEX	219	3.00	08/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 160 % 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	16600	16.0	08/11/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4200	50.0	08/10/2022	ND	219	110	200	3.25	
DRO >C10-C28*	37300	50.0	08/10/2022	ND	218	109	200	7.18	
EXT DRO >C28-C36	10600	50.0	08/10/2022	ND					

Surrogate: 1-Chlorooctane 344 % 43-149

Surrogate: 1-Chlorooctadecane 859 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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", is 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

Company Name: Etech Environmental Project Manager: Joel Loupy Address: 2617 Marland City: Hobbs State: NM Zip: 88240 Phone #: 575-318-1735 Fax #: Project #: 16409 Project Owner: Solaris Project Name: Lobo 285 Frac Tank Over Flow Project Location: Rural Eddyco, NM Sampler Name: Miguel R. Rios				BILL TO P.O. #: Company: Solaris 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/COMP)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
H223546																										
1	V1 @ 6"	G	1			X					X		8/9/22		Chlorides											
2	V2 @ 6"	G	1			X					X		8/9/22		Drex											
3	V3 @ 6"	G	1			X					X		8/9/22		Tot											
4	V4 @ 6"	G	1			X					X		8/9/22													

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Relinquished By: Date: 8-9-22 Time: 1551	Received By: Date: Time:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By: Date: Time:	Received By: Date: Time:	REMARKS: Pm @ etechenv.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 5.9°C Corrected Temp. °C: 5.3°C	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Yes <input type="checkbox"/> No <input type="checkbox"/> No
CHECKED BY: (Initials) 	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Thermometer ID #113 Correction Factor -0.6°C	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



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

October 03, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 FRAC TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 09/28/22 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, 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:	09/28/2022	Sampling Date:	09/28/2022
Reported:	10/03/2022	Sampling Type:	Soil
Project Name:	LOBO 285 FRAC TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	16409	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS - EDDY CO., NM		

Sample ID: V 1 @ 3' (H224518-01)

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	2.13	106	2.00	6.83		
Toluene*	<0.050	0.050	10/02/2022	ND	2.10	105	2.00	5.40		
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.07	103	2.00	4.68		
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.24	104	6.00	4.56		
Total BTEX	<0.300	0.300	10/02/2022	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	320	16.0	09/30/2022	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	09/30/2022	ND	211	105	200	2.88	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	210	105	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/28/2022
 Reported: 10/03/2022
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 09/28/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 3 @ 4' (H224518-02)

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	2.13	106	2.00	6.83	
Toluene*	<0.050	0.050	10/02/2022	ND	2.10	105	2.00	5.40	
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.07	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.24	104	6.00	4.56	
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	48.0	16.0	09/30/2022	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	09/30/2022	ND	211	105	200	2.88	
DRO >C10-C28*	<10.0	10.0	09/30/2022	ND	210	105	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 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: 09/28/2022
 Reported: 10/03/2022
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 09/28/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 4 @ 4' (H224518-03)

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	2.13	106	2.00	6.83	
Toluene*	0.411	0.050	10/02/2022	ND	2.10	105	2.00	5.40	
Ethylbenzene*	0.364	0.050	10/02/2022	ND	2.07	103	2.00	4.68	
Total Xylenes*	3.68	0.150	10/02/2022	ND	6.24	104	6.00	4.56	
Total BTEX	4.45	0.300	10/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 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	272	16.0	09/30/2022	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*	73.3	10.0	09/30/2022	ND	211	105	200	2.88	
DRO >C10-C28*	449	10.0	09/30/2022	ND	210	105	200	1.92	
EXT DRO >C28-C36	80.1	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 115 % 45.3-161

Surrogate: 1-Chlorooctadecane 151 % 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: 09/28/2022
 Reported: 10/03/2022
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 09/28/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V 4 @ 6' (H224518-04)

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	2.13	106	2.00	6.83		
Toluene*	<0.050	0.050	10/02/2022	ND	2.10	105	2.00	5.40		
Ethylbenzene*	<0.050	0.050	10/02/2022	ND	2.07	103	2.00	4.68		
Total Xylenes*	<0.150	0.150	10/02/2022	ND	6.24	104	6.00	4.56		
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	48.0	16.0	09/30/2022	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	09/30/2022	ND	211	105	200	2.88	
DRO >C10-C28*	91.6	10.0	09/30/2022	ND	210	105	200	1.92	
EXT DRO >C28-C36	25.5	10.0	09/30/2022	ND					

Surrogate: 1-Chlorooctane 117 % 45.3-161

Surrogate: 1-Chlorooctadecane 140 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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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

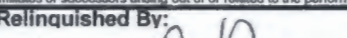

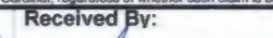


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/

Page 7 of 7

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Relinquished By:  Relinquished By: 		Date: 4-28-22 Time: 1525 Received By:  Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C 2.9 Corrected Temp. °C 2.83		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
		CHECKED BY: (Initials) 		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Observed Temp. °C _____ Corrected Temp. °C _____	

FORM-008 R S.S 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

October 25, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 FRAC TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 10/19/23 16:13.

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: 10/19/2023
 Reported: 10/25/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 1 @ 6 IN (H235739-01)

BTEx 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	2.11	105	2.00	7.95	
Toluene*	<0.050	0.050	10/24/2023	ND	2.14	107	2.00	5.23	
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.25	113	2.00	5.41	
Total Xylenes*	<0.150	0.150	10/24/2023	ND	6.74	112	6.00	5.64	
Total BTEx	<0.300	0.300	10/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	10/23/2023	ND	448	112	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	10/20/2023	ND	182	90.9	200	1.33	
DRO >C10-C28*	14.0	10.0	10/20/2023	ND	195	97.7	200	0.530	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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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: 10/19/2023
 Reported: 10/25/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 2 @ 6 IN (H235739-02)

BTX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	2.11	105	2.00	7.95	
Toluene*	<0.050	0.050	10/24/2023	ND	2.14	107	2.00	5.23	
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.25	113	2.00	5.41	
Total Xylenes*	<0.150	0.150	10/24/2023	ND	6.74	112	6.00	5.64	
Total BTX	<0.300	0.300	10/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

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	10/23/2023	ND	448	112	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	10/20/2023	ND	182	90.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	195	97.7	200	0.530	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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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: 10/19/2023
 Reported: 10/25/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 3 @ 6 IN (H235739-03)

BTEx 8021B		mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2023	ND	2.11	105	2.00	7.95		
Toluene*	<0.050	0.050	10/24/2023	ND	2.14	107	2.00	5.23		
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.25	113	2.00	5.41		
Total Xylenes*	<0.150	0.150	10/24/2023	ND	6.74	112	6.00	5.64		
Total BTEX	<0.300	0.300	10/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

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	10/23/2023	ND	448	112	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	10/20/2023	ND	182	90.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/20/2023	ND	195	97.7	200	0.530	
EXT DRO >C28-C36	<10.0	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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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: 10/19/2023
 Reported: 10/25/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 4 @ 6 IN (H235739-04)

BTEX 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	2.11	105	2.00	7.95	
Toluene*	0.185	0.050	10/24/2023	ND	2.14	107	2.00	5.23	GC-NC1
Ethylbenzene*	0.057	0.050	10/24/2023	ND	2.25	113	2.00	5.41	
Total Xylenes*	1.04	0.150	10/24/2023	ND	6.74	112	6.00	5.64	
Total BTEX	1.28	0.300	10/24/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	10/23/2023	ND	448	112	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*	32.3	10.0	10/20/2023	ND	194	97.1	200	0.697	
DRO >C10-C28*	606	10.0	10/20/2023	ND	197	98.6	200	0.963	
EXT DRO >C28-C36	179	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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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: 10/19/2023
 Reported: 10/25/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 5 @ 6 IN (H235739-05)

BTEx 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	2.11	105	2.00	7.95	GC-NC
Toluene*	0.226	0.050	10/24/2023	ND	2.14	107	2.00	5.23	GC-NC1
Ethylbenzene*	0.080	0.050	10/24/2023	ND	2.25	113	2.00	5.41	
Total Xylenes*	2.21	0.150	10/24/2023	ND	6.74	112	6.00	5.64	
Total BTEX	2.52	0.300	10/24/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6100	16.0	10/23/2023	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*	14.5	10.0	10/20/2023	ND	194	97.1	200	0.697	
DRO >C10-C28*	376	10.0	10/20/2023	ND	197	98.6	200	0.963	
EXT DRO >C28-C36	101	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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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: 10/19/2023
 Reported: 10/25/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 6 @ 6 IN (H235739-06)

BTEx 8021B		mg/kg	Analyzed By: AW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	2.11	105	2.00	7.95	
Toluene*	<0.050	0.050	10/24/2023	ND	2.14	107	2.00	5.23	
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.25	113	2.00	5.41	
Total Xylenes*	0.308	0.150	10/24/2023	ND	6.74	112	6.00	5.64	GC-NC1
Total BTEX	0.308	0.300	10/24/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134

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	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.3	10.0	10/20/2023	ND	194	97.1	200	0.697	
DRO >C10-C28*	287	10.0	10/20/2023	ND	197	98.6	200	0.963	
EXT DRO >C28-C36	52.2	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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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: 10/19/2023
 Reported: 10/25/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 7 @ 6 IN (H235739-07)

BTEx 8021B		mg/kg	Analyzed By: AW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	2.11	105	2.00	7.95	GC-NC
Toluene*	0.165	0.050	10/24/2023	ND	2.14	107	2.00	5.23	GC-NC1
Ethylbenzene*	0.095	0.050	10/24/2023	ND	2.25	113	2.00	5.41	
Total Xylenes*	1.99	0.150	10/24/2023	ND	6.74	112	6.00	5.64	
Total BTEx	2.25	0.300	10/24/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 138 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	10/23/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	49.0	10.0	10/20/2023	ND	194	97.1	200	0.697	
DRO >C10-C28*	898	10.0	10/20/2023	ND	197	98.6	200	0.963	
EXT DRO >C28-C36	277	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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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: 10/19/2023
 Reported: 10/25/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 8 @ 6 IN (H235739-08)

BTEx 8021B		mg/kg		Analyzed By: AW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2023	ND	2.11	105	2.00	7.95		
Toluene*	<0.050	0.050	10/24/2023	ND	2.14	107	2.00	5.23		
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.25	113	2.00	5.41		
Total Xylenes*	0.415	0.150	10/24/2023	ND	6.74	112	6.00	5.64	GC-NC1	
Total BTEX	0.415	0.300	10/24/2023	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10500	16.0	10/23/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	194	97.1	200	0.697	
DRO >C10-C28*	362	10.0	10/20/2023	ND	197	98.6	200	0.963	
EXT DRO >C28-C36	116	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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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: 10/19/2023
 Reported: 10/25/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 9 @ 6 IN (H235739-09)

BTEx 8021B		mg/kg		Analyzed By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2023	ND	2.11	105	2.00	7.95	
Toluene*	<0.050	0.050	10/24/2023	ND	2.14	107	2.00	5.23	
Ethylbenzene*	<0.050	0.050	10/24/2023	ND	2.25	113	2.00	5.41	
Total Xylenes*	0.319	0.150	10/24/2023	ND	6.74	112	6.00	5.64	GC-NC1
Total BTEX	0.319	0.300	10/24/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10700	16.0	10/23/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2023	ND	194	97.1	200	0.697	
DRO >C10-C28*	389	10.0	10/20/2023	ND	197	98.6	200	0.963	
EXT DRO >C28-C36	97.6	10.0	10/20/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 49.1-148

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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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as 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

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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: Etech Environmental				BILL TO				ANALYSIS REQUEST																	
Project Manager: Joel Lowry				P.O. #:																					
Address: 2617 W Marland Blvd				Company: Solaris																					
City: Hobbs		State: NM		Zip: 88240		Attn: Rob Kirk																			
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:		City:																			
Project #: 16409		Project Owner: Solaris water midstream, LLC		State: NM		Zip:																			
Project Name: Lobo 285 Frac Tank Overflow				Phone #:																					
Project Location: Rural Eddy				Fax #:																					
Sampler Name: Dominic Casarez																									
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING		DATE		TIME		Chloride		TPH		BTEX 8021	
		H235739		DC 1 FL 1 @ 6in		C 1				GROUNDWATER						10-19				✓		✓		✓	
		2 FL 2 @ 6in																							
		3 FL 3 @ 6in																							
		4 FL 4 @ 6in																							
		5 FL 5 @ 6in																							
		6 FL 6 @ 6in																							
		7 FL 7 @ 6in																							
		8 FL 8 @ 6in																							
		9 FL 9 @ 6in																							

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Relinquished By: <i>Dmth</i>		Date: 10-19		Received By: <i>Spadkiewicz</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One) S-I		Time: 1613		Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/>		CHECKED BY: (Initials) <i>SK</i>		REMARKS: Email results to pm@etechenv.com	
Sampler - UPS - Bus - Other:		#140		Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>		TPH - Rush 24hrs CL BTEX } Stand. TAT	

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



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

October 30, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 FRAC TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 10/23/23 16:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/23/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 10 @ 6 IN (H235802-01)

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	10/27/2023	ND	1.92	96.0	2.00	1.43	
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77	
Total BTX	<0.300	0.300	10/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	10/27/2023	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	10/26/2023	ND	196	98.0	200	0.310	
DRO >C10-C28*	57.9	10.0	10/26/2023	ND	215	107	200	0.878	
EXT DRO >C28-C36	23.2	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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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: 10/23/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 11 @ 6 IN (H235802-02)

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	10/27/2023	ND	1.92	96.0	2.00	1.43		
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22		
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79		
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77		
Total BTEX	<0.300	0.300	10/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14800	16.0	10/27/2023	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	10/26/2023	ND	189	94.3	200	17.1	
DRO >C10-C28*	194	10.0	10/26/2023	ND	175	87.3	200	22.5	QM-07
EXT DRO >C28-C36	25.4	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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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: 10/23/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 12 @ 6 IN (H235802-03)

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	10/27/2023	ND	1.92	96.0	2.00	1.43	
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22	
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79	
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77	
Total BTEX	<0.300	0.300	10/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

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	10/27/2023	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	10/27/2023	ND	189	94.3	200	17.1	
DRO >C10-C28*	24.1	10.0	10/27/2023	ND	175	87.3	200	22.5	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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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: 10/23/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 13 @ 6 IN (H235802-04)

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	10/27/2023	ND	1.92	96.0	2.00	1.43		
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22		
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79		
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77		
Total BTEx	<0.300	0.300	10/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	10/27/2023	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	10/26/2023	ND	189	94.3	200	17.1	
DRO >C10-C28*	230	10.0	10/26/2023	ND	175	87.3	200	22.5	
EXT DRO >C28-C36	58.9	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 73.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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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: 10/23/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 14 @ 6 IN (H235802-05)

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	10/27/2023	ND	1.92	96.0	2.00	1.43	
Toluene*	0.239	0.050	10/27/2023	ND	2.00	100	2.00	2.22	
Ethylbenzene*	0.153	0.050	10/27/2023	ND	2.02	101	2.00	2.79	GC-NC1
Total Xylenes*	1.25	0.150	10/27/2023	ND	6.05	101	6.00	2.77	
Total BTEX	1.64	0.300	10/27/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11600	16.0	10/27/2023	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*	35.3	10.0	10/26/2023	ND	189	94.3	200	17.1	
DRO >C10-C28*	3490	10.0	10/26/2023	ND	175	87.3	200	22.5	
EXT DRO >C28-C36	1080	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 64.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/23/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 15 @ 6 IN (H235802-06)

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	10/27/2023	ND	1.92	96.0	2.00	1.43		
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22		
Ethylbenzene*	<0.050	0.050	10/27/2023	ND	2.02	101	2.00	2.79		
Total Xylenes*	<0.150	0.150	10/27/2023	ND	6.05	101	6.00	2.77		
Total BTEX	<0.300	0.300	10/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	10/27/2023	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	10/26/2023	ND	189	94.3	200	17.1	
DRO >C10-C28*	15.2	10.0	10/26/2023	ND	175	87.3	200	22.5	
EXT DRO >C28-C36	18.2	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 49.1-148

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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: 10/23/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 16 @ 6 IN (H235802-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2023	ND	1.92	96.0	2.00	1.43		
Toluene*	0.051	0.050	10/27/2023	ND	2.00	100	2.00	2.22		
Ethylbenzene*	0.155	0.050	10/27/2023	ND	2.02	101	2.00	2.79	GC-NC1	
Total Xylenes*	1.16	0.150	10/27/2023	ND	6.05	101	6.00	2.77		
Total BTEX	1.36	0.300	10/27/2023	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10200	16.0	10/27/2023	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*	24.1	10.0	10/26/2023	ND	189	94.3	200	17.1	
DRO >C10-C28*	950	10.0	10/26/2023	ND	175	87.3	200	22.5	
EXT DRO >C28-C36	232	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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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: 10/23/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 17 @ 6 IN (H235802-08)

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	10/27/2023	ND	1.92	96.0	2.00	1.43		
Toluene*	<0.050	0.050	10/27/2023	ND	2.00	100	2.00	2.22		
Ethylbenzene*	0.057	0.050	10/27/2023	ND	2.02	101	2.00	2.79	GC-NC1	
Total Xylenes*	0.432	0.150	10/27/2023	ND	6.05	101	6.00	2.77		
Total BTEX	0.489	0.300	10/27/2023	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

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	10/27/2023	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*	24.3	10.0	10/26/2023	ND	189	94.3	200	17.1	
DRO >C10-C28*	1510	10.0	10/26/2023	ND	175	87.3	200	22.5	
EXT DRO >C28-C36	371	10.0	10/26/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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 11 of 11

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: P.O. Box 301				Company: Solar midstream																															
City: Lovington		State: NM		Zip: 88260		Attn: Rob Kirk																													
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																															
Project #: 16409		Project Owner: Solar midstream		City:																															
Project Name: Lobo 285 frac Tank overflow				State:																Zip:															
Project Location: Rural Lovington				Phone #:																															
Sampler Name: Dominic Casarez				Fax #:																															
FOR LAB USE ONLY																																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																							
				GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
DC		1 FL 10 @ 6 in		C		1														10-23				<div style="display: flex; justify-content: space-around;"> <div>✓</div> <div>✓</div> <div>✓</div> </div>											
2		FL 11 @ 6 in																																	
3		FL 12 @ 6 in																																	
4		FL 13 @ 6 in																																	
5		FL 14 @ 6 in																																	
6		FL 15 @ 6 in																																	
7		FL 16 @ 6 in																																	
7		FL 17 @ 6 in																																	
<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 reasons or otherwise.</p>																																			
Relinquished By:				Date: 10-23-23		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																					
Relinquished By:				Time: 16:25		Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																					
Relinquished By:				Date:		Received By:				REMARKS:																									
Relinquished By:				Time:		Received By:				Please email results to pm@etechenv.com.																									
Delivered By: (Circle One)				4.80c		Sample Condition				CHECKED BY:																									
Sampler - UPS - Bus - Other:				#140		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				(Initials)																									
						Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																													
						Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																													

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

October 30, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 FRAC TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 10/25/23 14:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, 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: 10/25/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #18 @ 6 IN (H235856-01)

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/28/2023	ND	1.89	94.3	2.00	4.54	
Toluene*	3.21	0.200	10/28/2023	ND	1.99	99.7	2.00	3.26	
Ethylbenzene*	2.50	0.200	10/28/2023	ND	1.98	99.2	2.00	3.32	
Total Xylenes*	45.4	0.600	10/28/2023	ND	6.03	100	6.00	3.17	
Total BTEx	51.1	1.20	10/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	10/30/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	695	10.0	10/27/2023	ND	175	87.5	200	0.551	
DRO >C10-C28*	4050	10.0	10/27/2023	ND	159	79.5	200	2.83	
EXT DRO >C28-C36	1010	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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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: 10/25/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #19 @ 6 IN (H235856-02)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/28/2023	ND	1.89	94.3	2.00	4.54	
Toluene*	3.39	0.200	10/28/2023	ND	1.99	99.7	2.00	3.26	
Ethylbenzene*	2.42	0.200	10/28/2023	ND	1.98	99.2	2.00	3.32	
Total Xylenes*	43.0	0.600	10/28/2023	ND	6.03	100	6.00	3.17	
Total BTEX	48.8	1.20	10/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	10/30/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	711	10.0	10/27/2023	ND	175	87.5	200	0.551	
DRO >C10-C28*	4700	10.0	10/27/2023	ND	159	79.5	200	2.83	
EXT DRO >C28-C36	1300	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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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: 10/25/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #20 @ 6 IN (H235856-03)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/28/2023	ND	1.89	94.3	2.00	4.54	
Toluene*	1.32	0.100	10/28/2023	ND	1.99	99.7	2.00	3.26	
Ethylbenzene*	2.15	0.100	10/28/2023	ND	1.98	99.2	2.00	3.32	
Total Xylenes*	29.6	0.300	10/28/2023	ND	6.03	100	6.00	3.17	
Total BTEX	33.1	0.600	10/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	10/30/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	869	10.0	10/27/2023	ND	175	87.5	200	0.551	
DRO >C10-C28*	7980	10.0	10/27/2023	ND	159	79.5	200	2.83	
EXT DRO >C28-C36	1880	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 166 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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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: 10/25/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/23/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #21 @ 6 IN (H235856-04)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/28/2023	ND	1.89	94.3	2.00	4.54	
Toluene*	5.24	0.200	10/28/2023	ND	1.99	99.7	2.00	3.26	
Ethylbenzene*	5.36	0.200	10/28/2023	ND	1.98	99.2	2.00	3.32	
Total Xylenes*	80.6	0.600	10/28/2023	ND	6.03	100	6.00	3.17	
Total BTEX	91.2	1.20	10/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	10/30/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	936	10.0	10/27/2023	ND	175	87.5	200	0.551	
DRO >C10-C28*	3420	10.0	10/27/2023	ND	159	79.5	200	2.83	
EXT DRO >C28-C36	862	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 151 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 10/25/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #22 @ 6 IN (H235856-05)

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	10/28/2023	ND	1.89	94.3	2.00	4.54		
Toluene*	<0.050	0.050	10/28/2023	ND	1.99	99.7	2.00	3.26		
Ethylbenzene*	<0.050	0.050	10/28/2023	ND	1.98	99.2	2.00	3.32		
Total Xylenes*	<0.150	0.150	10/28/2023	ND	6.03	100	6.00	3.17		
Total BTEX	<0.300	0.300	10/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	10/30/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2023	ND	175	87.5	200	0.551	
DRO >C10-C28*	348	10.0	10/27/2023	ND	159	79.5	200	2.83	
EXT DRO >C28-C36	122	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 64.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/25/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #23 @ 6 IN (H235856-06)

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	10/28/2023	ND	1.89	94.3	2.00	4.54		
Toluene*	<0.050	0.050	10/28/2023	ND	1.99	99.7	2.00	3.26		
Ethylbenzene*	<0.050	0.050	10/28/2023	ND	1.98	99.2	2.00	3.32		
Total Xylenes*	0.221	0.150	10/28/2023	ND	6.03	100	6.00	3.17		
Total BTEX	<0.300	0.300	10/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	10/30/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2023	ND	193	96.5	200	4.16	
DRO >C10-C28*	25.3	10.0	10/27/2023	ND	194	97.2	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
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Received: 10/25/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #24 @ 6 IN (H235856-07)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/28/2023	ND	1.89	94.3	2.00	4.54	
Toluene*	1.59	0.200	10/28/2023	ND	1.99	99.7	2.00	3.26	
Ethylbenzene*	1.67	0.200	10/28/2023	ND	1.98	99.2	2.00	3.32	
Total Xylenes*	31.6	0.600	10/28/2023	ND	6.03	100	6.00	3.17	
Total BTEX	34.8	1.20	10/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8240	16.0	10/30/2023	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	862	10.0	10/27/2023	ND	193	96.5	200	4.16	
DRO >C10-C28*	8780	10.0	10/27/2023	ND	194	97.2	200	3.64	
EXT DRO >C28-C36	1880	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 144 % 48.2-134

Surrogate: 1-Chlorooctadecane 152 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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Received: 10/25/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #25 @ 6 IN (H235856-08)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.277	0.200	10/28/2023	ND	1.89	94.3	2.00	4.54	
Toluene*	6.48	0.200	10/28/2023	ND	1.99	99.7	2.00	3.26	
Ethylbenzene*	6.08	0.200	10/28/2023	ND	1.98	99.2	2.00	3.32	
Total Xylenes*	85.0	0.600	10/28/2023	ND	6.03	100	6.00	3.17	
Total BTEX	97.8	1.20	10/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	10/30/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1450	10.0	10/27/2023	ND	193	96.5	200	4.16	
DRO >C10-C28*	7120	10.0	10/27/2023	ND	194	97.2	200	3.64	
EXT DRO >C28-C36	1590	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 161 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/25/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #28 @ 6 IN (H235856-09)

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	10/28/2023	ND	1.89	94.3	2.00	4.54	
Toluene*	0.449	0.050	10/28/2023	ND	1.99	99.7	2.00	3.26	
Ethylbenzene*	0.248	0.050	10/28/2023	ND	1.98	99.2	2.00	3.32	
Total Xylenes*	7.87	0.150	10/28/2023	ND	6.03	100	6.00	3.17	
Total BTEX	8.57	0.300	10/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16400	16.0	10/30/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	154	10.0	10/27/2023	ND	193	96.5	200	4.16	
DRO >C10-C28*	3970	10.0	10/27/2023	ND	194	97.2	200	3.64	
EXT DRO >C28-C36	1370	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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 HOBBS NM, 88240
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Received: 10/25/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #29 @ 6 IN (H235856-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/28/2023	ND	1.89	94.3	2.00	4.54		
Toluene*	<0.050	0.050	10/28/2023	ND	1.99	99.7	2.00	3.26		
Ethylbenzene*	<0.050	0.050	10/28/2023	ND	1.98	99.2	2.00	3.32		
Total Xylenes*	1.91	0.150	10/28/2023	ND	6.03	100	6.00	3.17		
Total BTEX	1.91	0.300	10/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	10/30/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	161	10.0	10/27/2023	ND	193	96.5	200	4.16	
DRO >C10-C28*	1880	10.0	10/27/2023	ND	194	97.2	200	3.64	
EXT DRO >C28-C36	468	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Analytical Results For:

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 Fax To:

Received: 10/25/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #30 @ 6 IN (H235856-11)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/28/2023	ND	1.89	94.3	2.00	4.54	
Toluene*	2.34	0.200	10/28/2023	ND	1.99	99.7	2.00	3.26	
Ethylbenzene*	3.66	0.200	10/28/2023	ND	1.98	99.2	2.00	3.32	
Total Xylenes*	54.6	0.600	10/28/2023	ND	6.03	100	6.00	3.17	
Total BTEX	60.6	1.20	10/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 140 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	10/30/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1350	10.0	10/27/2023	ND	193	96.5	200	4.16	
DRO >C10-C28*	7060	10.0	10/27/2023	ND	194	97.2	200	3.64	
EXT DRO >C28-C36	1560	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 168 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

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

Received: 10/25/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #31 @ 6 IN (H235856-12)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/28/2023	ND	1.93	96.6	2.00	0.390	
Toluene*	10.8	0.500	10/28/2023	ND	1.89	94.7	2.00	0.0450	
Ethylbenzene*	15.8	0.500	10/28/2023	ND	1.90	94.8	2.00	0.0817	
Total Xylenes*	114	1.50	10/28/2023	ND	5.44	90.6	6.00	0.448	QM-07
Total BTEX	141	3.00	10/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 167 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	10/30/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3350	10.0	10/27/2023	ND	193	96.5	200	4.16	
DRO >C10-C28*	7170	10.0	10/27/2023	ND	194	97.2	200	3.64	
EXT DRO >C28-C36	1480	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 196 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/25/2023
 Reported: 10/30/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL #7 @ 1 FT (H235856-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/28/2023	ND	1.93	96.6	2.00	0.390		
Toluene*	<0.050	0.050	10/28/2023	ND	1.89	94.7	2.00	0.0450		
Ethylbenzene*	<0.050	0.050	10/28/2023	ND	1.90	94.8	2.00	0.0817		
Total Xylenes*	<0.150	0.150	10/28/2023	ND	5.44	90.6	6.00	0.448		
Total BTEx	<0.300	0.300	10/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	10/30/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2023	ND	193	96.5	200	4.16	
DRO >C10-C28*	<10.0	10.0	10/27/2023	ND	194	97.2	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	10/27/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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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.
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. #:				Chloride TPH (8015M) BTEX (8021B)																																			
Address: 2617 West Marland				Company: Solaris																																							
City: Hobbs State: NM Zip: 88240				Attn: Rob Kirk																																							
Phone #: (575) 264-9884 Fax #:				Address:																																							
Project #: 16409 Project Owner: Solaris				City:																																							
Project Name: Lobo 285 Frac Tank Overflow				State: NM Zip:																																							
Project Location: Rural Eddy				Phone #:																																							
Sampler Name: Dominic Casarez				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															
H235856																																											
1		FL #18 @ 6 in		C		1				X										X		10/23/23				X		X		X													
2		FL #19 @ 6 in		C		1				X										X		10/23/23				X		X		X													
3		FL #20 @ 6 in		C		1				X										X		10/23/23				X		X		X													
4		FL #21 @ 6 in		C		1				X										X		10/23/23				X		X		X													
5		FL #22 @ 6 in		C		1				X										X		10/24/23				X		X		X													
6		FL #23 @ 6 in		C		1				X										X		10/24/23				X		X		X													
7		FL #24 @ 6 in		C		1				X										X		10/24/23				X		X		X													
8		FL #25 @ 6 in		C		1				X										X		10/24/23				X		X		X													
9		FL #28 @ 6 in		C		1				X										X		10/24/23				X		X		X													
10		FL #29 @ 6 in		C		1				X										X		10/24/23				X		X		X													
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Relinquished By:				Date: 10-25-23				Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																											
				Time: 1410								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																											
Relinquished By:				Date:				Received By:				REMARKS:																															
				Time:																																							
Delivered By: (Circle One) -4-22										Sample Condition										CHECKED BY:																							
Sampler - UPS - Bus - Other: #140										Cool Intact										(Initials)																							
										<input type="checkbox"/> Yes <input type="checkbox"/> No										<input type="checkbox"/> Yes <input type="checkbox"/> No																							
										<input type="checkbox"/> Yes <input type="checkbox"/> No																																	
Please email results and copy of CoC to pm@etechenv.com.																																											

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

October 31, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 FRAC TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 10/27/23 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 35 @ 6 IN (H235917-01)

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	10/30/2023	ND	1.95	97.4	2.00	2.22		
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	10/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.7 % 49.1-148

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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: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 36 @ 6 IN (H235917-02)

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	10/30/2023	ND	1.95	97.4	2.00	2.22		
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	10/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 74.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.5 % 49.1-148

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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: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 37 @ 6 IN (H235917-03)

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	10/30/2023	ND	1.95	97.4	2.00	2.22		
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	10/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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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: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 38 @ 6 IN (H235917-04)

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	10/30/2023	ND	1.95	97.4	2.00	2.22		
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	10/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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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: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 39 @ 6 IN (H235917-05)

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	10/30/2023	ND	1.95	97.4	2.00	2.22		
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	10/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.0 % 49.1-148

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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: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 47 @ 0-3 IN (H235917-06)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2023	ND	1.95	97.4	2.00	2.22	GC-NC
Toluene*	2.20	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12	GC-NC1
Ethylbenzene*	1.12	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54	
Total Xylenes*	19.3	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23	
Total BTEx	22.6	0.300	10/30/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 352 % 71.5-134

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	10/31/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	734	10.0	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	5290	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	1550	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 227 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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Received: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 48 @ 0-3 IN (H235917-07)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2023	ND	1.95	97.4	2.00	2.22	
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12	
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54	
Total Xylenes*	0.296	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23	
Total BTEX	<0.300	0.300	10/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

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	10/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.1 % 49.1-148

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Analytical Results For:

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Received: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 49 @ 0-3 IN (H235917-08)

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	10/30/2023	ND	1.95	97.4	2.00	2.22	
Toluene*	0.052	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12	GC-NC1
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54	
Total Xylenes*	0.671	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23	
Total BTEX	0.723	0.300	10/30/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	10/31/2023	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*	11.1	10.0	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	185	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	21.4	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 64.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.6 % 49.1-148

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Received: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 50 @ 0-3 IN (H235917-09)

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	10/30/2023	ND	1.95	97.4	2.00	2.22		
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10900	16.0	10/31/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.3 % 49.1-148

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 HOBBS NM, 88240
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Received: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 51 @ 0-3 IN (H235917-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.95	97.4	2.00	2.22		
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	10/31/2023	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	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	180	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	45.9	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.6 % 49.1-148

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 HOBBS NM, 88240
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Received: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 52 @ 0-3 IN (H235917-11)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2023	ND	1.95	97.4	2.00	2.22	
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12	
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54	
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23	
Total BTEX	<0.300	0.300	10/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	10/31/2023	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	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	103	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	11.3	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 67.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.9 % 49.1-148

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Analytical Results For:

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Received: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 53 @ 2' (H235917-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.95	97.4	2.00	2.22		
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/31/2023	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	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.3 % 49.1-148

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Received: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL # 54 @ 4 FT (H235917-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.95	97.4	2.00	2.22		
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	10/31/2023	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	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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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: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW - 1 (H235917-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.95	97.4	2.00	2.22		
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	10/31/2023	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	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.0 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 (H235917-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.95	97.4	2.00	2.22		
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/31/2023	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	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.2 % 49.1-148

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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: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW - 1 (H235917-16)

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	10/30/2023	ND	1.95	97.4	2.00	2.22	
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12	
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54	
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23	
Total BTX	<0.300	0.300	10/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/31/2023	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	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	19.8	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 49.1-148

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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: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW - 2 (H235917-17)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2023	ND	1.95	97.4	2.00	2.22	
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12	
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54	
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23	
Total BTEX	<0.300	0.300	10/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/31/2023	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	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.5 % 49.1-148

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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: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW - 1 (H235917-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.95	97.4	2.00	2.22		
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/31/2023	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	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 69.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.1 % 49.1-148

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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: 10/27/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW - 2 (H235917-19)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.95	97.4	2.00	2.22		
Toluene*	<0.050	0.050	10/30/2023	ND	1.92	96.0	2.00	2.12		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	2.00	99.8	2.00	3.54		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.98	99.7	6.00	3.23		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	10/31/2023	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	10/31/2023	ND	181	90.3	200	0.312	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	166	82.8	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 68.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.3 % 49.1-148

Cardinal Laboratories

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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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as 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

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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]



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 23 of 23

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 West Marland				Company: Solaris																							
City: Hobbs State: NM Zip: 88240				Attn: Rob Kirk																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: 16409 Project Owner: Solaris				City:																							
Project Name: Lobo 285 Frac Tank Overflow				State: NM Zip:																							
Project Location: Rural Eddy				Phone #:																							
Sampler Name: Dominic Casarez				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													
4235917																											
11	FL #52 @ 0-3 in	C	1			X				X			10/26/23		X	X	X										
12	FL #53 @ 2'	C	1			X				X			10/26/23		X	X	X										
13	FL #54 @ 4 ft	C	1			X				X			10/26/23		X	X	X										
14	NW-1	C	1			X				X			10/26/23		X	X	X										
15	SW-1	C	1			X				X			10/26/23		X	X	X										
16	EW-1	C	1			X				X			10/26/23		X	X	X										
17	EW-2	C	1			X				X			10/26/23		X	X	X										
18	WW-1	C	1			X				X			10/26/23		X	X	X										
19	WW-2	C	1			X				X			10/26/23		X	X	X										
<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 reasons or otherwise.</p>																											
Relinquished By:				Date: 10-27-23 Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:				REMARKS: Rush added 10/30 @ 1435															
Relinquished By:				Date: 1440 Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:																			
Time:				Time:																							
Delivered By: (Circle One)				Sample Condition				CHECKED BY: (Initials)				Please email results and copy of CoC to pm@etechenv.com.															
Sampler - UPS - Bus - Other: -8.1c #140				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				8K																			

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

October 31, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 FRAC TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 10/30/23 14:35.

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, 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:	10/30/2023	Sampling Date:	10/27/2023
Reported:	10/31/2023	Sampling Type:	Soil
Project Name:	LOBO 285 FRAC TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	16409	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS - EDDY CO., NM		

Sample ID: FL # 40 @ 6 IN (H235932-01)

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	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42	QM-07	
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04	QM-07	
Total BTX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	10/31/2023	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	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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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: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 41 @ 6 IN (H235932-02)

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	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTEx	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	10/31/2023	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	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Analytical Results For:

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

Received: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 42 @ 6 IN (H235932-03)

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	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	10/31/2023	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	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Analytical Results For:

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

Received: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 43 @ 6 IN (H235932-04)

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	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	10/31/2023	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	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	10.4	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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Received: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 44 @ 6 IN (H235932-05)

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	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2030	16.0	10/31/2023	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	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	15.4	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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 Fax To:

Received: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 45 @ 6 IN (H235932-06)

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	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2030	16.0	10/31/2023	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	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	10.5	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Analytical Results For:

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

Received: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 46 @ 6 IN (H235932-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	10/31/2023	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	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	14.4	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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 HOBBS NM, 88240
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Received: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 47 @ 6 IN (H235932-08)

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	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	10/31/2023	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	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	11.4	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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Analytical Results For:

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Received: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 55 @ 2-4 FT (H235932-09)

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	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/31/2023	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	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	77.4	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 60.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.8 % 49.1-148

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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: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW - 2 (H235932-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

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	10/31/2023	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	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	373	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	121	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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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: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW - 3 (H235932-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	10/31/2023	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	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	416	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	137	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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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: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW - 4 (H235932-12)

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	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

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	10/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	198	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	68.4	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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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: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW - 5 (H235932-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	10/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	98.6	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	25.4	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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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: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW - 6 (H235932-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	10/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	289	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	98.1	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW - 7 (H235932-15)

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	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	10/31/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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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: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 2 (H235932-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	10/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	500	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	171	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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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: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 (H235932-17)

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	10/30/2023	ND	1.93	96.7	2.00	4.05	
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01	
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42	
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04	
Total BTX	<0.300	0.300	10/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	10/31/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	579	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	200	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 (H235932-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	10/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	199	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	73.4	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 (H235932-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTEX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	10/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	176	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	58.9	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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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: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 6 (H235932-20)

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	10/30/2023	ND	1.93	96.7	2.00	4.05		
Toluene*	<0.050	0.050	10/30/2023	ND	1.89	94.5	2.00	4.01		
Ethylbenzene*	<0.050	0.050	10/30/2023	ND	1.90	95.0	2.00	4.42		
Total Xylenes*	<0.150	0.150	10/30/2023	ND	5.56	92.7	6.00	4.04		
Total BTX	<0.300	0.300	10/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10100	16.0	10/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	185	92.3	200	0.386	
DRO >C10-C28*	271	10.0	10/31/2023	ND	196	98.0	200	1.93	
EXT DRO >C28-C36	94.2	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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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: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 7 (H235932-21)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	2.07	103	2.00	2.80		
Toluene*	<0.050	0.050	10/31/2023	ND	1.82	91.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.86	92.9	2.00	4.27		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.55	92.6	6.00	4.55		
Total BTEX	<0.300	0.300	10/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	10/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	168	84.1	200	1.54	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	174	86.9	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.5 % 49.1-148

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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: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW - 3 (H235932-22)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	2.07	103	2.00	2.80	
Toluene*	<0.050	0.050	10/31/2023	ND	1.82	91.2	2.00	3.41	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.86	92.9	2.00	4.27	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.55	92.6	6.00	4.55	
Total BTEX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	168	84.1	200	1.54	
DRO >C10-C28*	97.2	10.0	10/31/2023	ND	174	86.9	200	5.27	
EXT DRO >C28-C36	19.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 58.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.6 % 49.1-148

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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: 10/30/2023
 Reported: 10/31/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 10/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW - 3 (H235932-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	2.07	103	2.00	2.80		
Toluene*	<0.050	0.050	10/31/2023	ND	1.82	91.2	2.00	3.41		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.86	92.9	2.00	4.27		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.55	92.6	6.00	4.55		
Total BTEX	<0.300	0.300	10/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2023	ND	168	84.1	200	1.54	
DRO >C10-C28*	138	10.0	10/31/2023	ND	174	86.9	200	5.27	
EXT DRO >C28-C36	30.1	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

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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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 26 of 28

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: Joel Lowry				A.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: Solaris																											
City: Hobbs State: NM Zip: 88240				Attn: Rob Kirk																											
Phone #: (575) 264-9884 Fax #:				Address:																											
Project #: 16409 Project Owner: Solaris				City:																											
Project Name: Lobo 285 Frac Tank Overflow				State: NM Zip:																											
Project Location: Rural Eddy				Phone #:																											
Sampler Name: Dominic Casarez				Fax #:																											
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																	
H235932																															
1	FL #40 @ 6 in	C	1			X				X			10/27/23		X	X	X														
2	FL #41 @ 6 in	C	1			X				X			10/27/23		X	X	X														
3	FL #42 @ 6 in	C	1			X				X			10/27/23		X	X	X														
4	FL #43 @ 6 in	C	1			X				X			10/27/23		X	X	X														
5	FL #44 @ 6 in	C	1			X				X			10/27/23		X	X	X														
6	FL #45 @ 6 in	C	1			X				X			10/27/23		X	X	X														
7	FL #46 @ 6 in	C	1			X				X			10/27/23		X	X	X														
8	FL #47 @ 6 in	C	1			X				X			10/27/23		X	X	X														
9	FL #55 @ 2-4 ft	C	1			X				X			10/27/23		X	X	X														
10	NW-2	C	1			X				X			10/27/23		X	X	X														
<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: 10-30-23		Received By:		Time: 1435		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:		REMARKS: Rush! 24hrs Please email results and copy of CoC to pm@etechenv.com.															
Relinquished By:		Date:		Received By:		Time:																									
Delivered By: (Circle One)				#140				Sample Condition				CHECKED BY:																			
Sampler - UPS - Bus - Other: -13.0%								Cool Intact				(Initials)																			
								<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																			

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

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Joel Lowry				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																	
Address: 2617 West Marland				Company: Solaris																					
City: Hobbs State: NM Zip: 88240				Attn: Rob Kirk																					
Phone #: (575) 264-9884 Fax #:				Address:																					
Project #: 16409 Project Owner: Solaris				City:																					
Project Name: Lobo 285 Frac Tank Overflow				State: NM Zip:																					
Project Location: Rural Eddy				Phone #:																					
Sampler Name: Dominic Casarez				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													
H235932				C 1				X		X		10/27/23		X X X											
11 NW-3				C 1				X		X		10/27/23		X X X											
12 NW-4				C 1				X		X		10/27/23		X X X											
13 NW-5				C 1				X		X		10/27/23		X X X											
14 NW-6				C 1				X		X		10/27/23		X X X											
15 NW-7				C 1				X		X		10/27/23		X X X											
16 SW-2				C 1				X		X		10/27/23		X X X											
17 SW-3				C 1				X		X		10/27/23		X X X											
18 SW-4				C 1				X		X		10/27/23		X X X											
19 SW-5				C 1				X		X		10/27/23		X X X											
20 SW-6				C 1				X		X		10/27/23		X X X											
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Relinquished By: [Signature]				Date: 10-30-23		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:											
				Time: 1435						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:											
Relinquished By:				Date:		Received By:				REMARKS: Push! 24hrs															
				Time:						Please email results and copy of CoC to pm@etechenv.com.															
Delivered By: (Circle One)				Date: 10-30-23		Sample Condition				CHECKED BY:															
Sampler - UPS - Bus - Other: -13.0c				#140		Cool Intact				(Initials)															
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				[Signature]															

**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

November 15, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO

Enclosed are the results of analyses for samples received by the laboratory on 10/30/23 17:02.

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

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL # 32 @ 6IN	H235943-01	Soil	29-Oct-23 14:00	30-Oct-23 17:02
FL # 34 @ 6IN	H235943-02	Soil	29-Oct-23 14:00	30-Oct-23 17:02
FL # 33 @ 6IN	H235943-03	Soil	29-Oct-23 14:00	30-Oct-23 17:02
SHd	H235943-04	Soil	29-Oct-23 14:00	30-Oct-23 17:02
NHc	H235943-05	Soil	29-Oct-23 14:00	30-Oct-23 17:02
WHc	H235943-06	Soil	29-Oct-23 14:00	30-Oct-23 17:02
EHf	H235943-07	Soil	29-Oct-23 14:00	30-Oct-23 17:02
SW-8	H235943-08	Soil	29-Oct-23 14:00	30-Oct-23 17:02
EW-5	H235943-09	Soil	29-Oct-23 14:00	30-Oct-23 17:02
NW-8	H235943-10	Soil	29-Oct-23 14:00	30-Oct-23 17:02
EW-6	H235943-11	Soil	29-Oct-23 14:00	30-Oct-23 17:02
EW-7	H235943-12	Soil	29-Oct-23 14:00	30-Oct-23 17:02
SW-9	H235943-13	Soil	29-Oct-23 14:00	30-Oct-23 17:02
EW-4	H235943-14	Soil	29-Oct-23 14:00	30-Oct-23 17:02

11/15/23 - Client changed some sample IDs (see COC). This is the revised report and will replace the one sent on 10/31/23.

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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

FL # 32 @ 6IN**H235943-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2000		16.0	mg/kg	4	3103116	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	2.83		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	QM-07
Ethylbenzene*	2.52		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	QM-07
Total Xylenes*	14.9		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	QM-07
Total BTEX	20.3		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 226 % 71.5-134 3103068 JH 31-Oct-23 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	623		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	QM-07
DRO >C10-C28*	3120		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	QM-07
EXT DRO >C28-C36	718		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane 141 % 48.2-134 3103067 MS 31-Oct-23 8015B

Surrogate: 1-Chlorooctadecane 116 % 49.1-148 3103067 MS 31-Oct-23 8015B

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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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

FL # 34 @ 6IN**H235943-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1870		16.0	mg/kg	4	3103116	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	2.85		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Ethylbenzene*	2.42		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total Xylenes*	14.2		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total BTEX	19.5		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		237 %		71.5-134		3103068	JH	31-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	565		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
DRO >C10-C28*	2950		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
EXT DRO >C28-C36	688		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane		143 %		48.2-134		3103067	MS	31-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane		117 %		49.1-148		3103067	MS	31-Oct-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

FL # 33 @ 6IN**H235943-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1520		16.0	mg/kg	4	3103116	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	3.08		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Ethylbenzene*	2.67		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total Xylenes*	15.4		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total BTEX	21.2		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		229 %		71.5-134		3103068	JH	31-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	737		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
DRO >C10-C28*	3050		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
EXT DRO >C28-C36	701		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane		145 %		48.2-134		3103067	MS	31-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane		112 %		49.1-148		3103067	MS	31-Oct-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

SHd**H235943-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	3103116	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	0.075		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Ethylbenzene*	0.061		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total Xylenes*	0.388		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total BTEX	0.524		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	3103068	JH	31-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
DRO >C10-C28*	66.4		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
EXT DRO >C28-C36	23.7		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane			87.4 %		48.2-134	3103067	MS	31-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			100 %		49.1-148	3103067	MS	31-Oct-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

NHc
H235943-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	3103116	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %		71.5-134	3103068	JH	31-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
DRO >C10-C28*	71.2		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
EXT DRO >C28-C36	21.5		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane			81.0 %		48.2-134	3103067	MS	31-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			90.4 %		49.1-148	3103067	MS	31-Oct-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

WHc
H235943-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	3103116	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	3103068	JH	31-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
DRO >C10-C28*	88.7		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
EXT DRO >C28-C36	29.1		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane			71.4 %		48.2-134	3103067	MS	31-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			79.9 %		49.1-148	3103067	MS	31-Oct-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

Ehf**H235943-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	3103116	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3103068	JH	31-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
DRO >C10-C28*	73.7		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
EXT DRO >C28-C36	23.4		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane			89.1 %		48.2-134	3103067	MS	31-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			99.7 %		49.1-148	3103067	MS	31-Oct-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

SW-8
H235943-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1550		16.0	mg/kg	4	3103121	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	GC-NC
Total Xylenes*	0.255		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	GC-NC1
Total BTEX	<0.300		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 158 % 71.5-134 3103068 JH 31-Oct-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	105		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
DRO >C10-C28*	1760		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
EXT DRO >C28-C36	467		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane 105 % 48.2-134 3103067 MS 31-Oct-23 8015B

Surrogate: 1-Chlorooctadecane 101 % 49.1-148 3103067 MS 31-Oct-23 8015B

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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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

EW-5
H235943-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3200		16.0	mg/kg	4	3103121	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		128 %		71.5-134		3103068	JH	31-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
DRO >C10-C28*	133		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
EXT DRO >C28-C36	50.3		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane		95.2 %		48.2-134		3103067	MS	31-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane		105 %		49.1-148		3103067	MS	31-Oct-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

NW-8
H235943-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2880		16.0	mg/kg	4	3103121	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %		71.5-134	3103068	JH	31-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
DRO >C10-C28*	111		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
EXT DRO >C28-C36	38.9		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane			92.5 %		48.2-134	3103067	MS	31-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			105 %		49.1-148	3103067	MS	31-Oct-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

EW-6
H235943-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1880		16.0	mg/kg	4	3103121	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	GC-NC
Total Xylenes*	0.222		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	GC-NC1
Total BTEX	<0.300		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 147 % 71.5-134 3103068 JH 31-Oct-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	138		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
DRO >C10-C28*	2270		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
EXT DRO >C28-C36	588		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane 103 % 48.2-134 3103067 MS 31-Oct-23 8015B

Surrogate: 1-Chlorooctadecane 100 % 49.1-148 3103067 MS 31-Oct-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

EW-7
H235943-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1640		16.0	mg/kg	4	3103121	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	GC-NC
Total Xylenes*	0.229		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	GC-NC1
Total BTEX	<0.300		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 226 % 71.5-134 3103068 JH 31-Oct-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	151		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
DRO >C10-C28*	2540		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
EXT DRO >C28-C36	678		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane 115 % 48.2-134 3103067 MS 31-Oct-23 8015B

Surrogate: 1-Chlorooctadecane 112 % 49.1-148 3103067 MS 31-Oct-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

SW-9**H235943-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1730		16.0	mg/kg	4	3103121	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	GC-NC
Total Xylenes*	0.202		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	GC-NC1
Total BTEX	<0.300		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 148 % 71.5-134 3103068 JH 31-Oct-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	122		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
DRO >C10-C28*	2160		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
EXT DRO >C28-C36	574		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane 116 % 48.2-134 3103067 MS 31-Oct-23 8015B

Surrogate: 1-Chlorooctadecane 112 % 49.1-148 3103067 MS 31-Oct-23 8015B

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Analytical Results For:

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

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

EW-4
H235943-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3280		16.0	mg/kg	4	3103121	AC	31-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3103068	JH	31-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3103068	JH	31-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			123 %		71.5-134	3103068	JH	31-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
DRO >C10-C28*	153		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	
EXT DRO >C28-C36	57.0		10.0	mg/kg	1	3103067	MS	31-Oct-23	8015B	

Surrogate: 1-Chlorooctane			97.6 %		48.2-134	3103067	MS	31-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			110 %		49.1-148	3103067	MS	31-Oct-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3103116 - 1:4 DI Water										
Blank (3103116-BLK1)				Prepared & Analyzed: 31-Oct-23						
Chloride	ND	16.0	mg/kg							
LCS (3103116-BS1)				Prepared & Analyzed: 31-Oct-23						
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3103116-BSD1)				Prepared & Analyzed: 31-Oct-23						
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 3103121 - 1:4 DI Water										
Blank (3103121-BLK1)				Prepared & Analyzed: 31-Oct-23						
Chloride	ND	16.0	mg/kg							
LCS (3103121-BS1)				Prepared & Analyzed: 31-Oct-23						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3103121-BSD1)				Prepared & Analyzed: 31-Oct-23						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3103068 - Volatiles**Blank (3103068-BLK1)**

Prepared: 30-Oct-23 Analyzed: 31-Oct-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0537		mg/kg	0.0500		107	71.5-134			

LCS (3103068-BS1)

Prepared: 30-Oct-23 Analyzed: 31-Oct-23

Benzene	1.97	0.050	mg/kg	2.00		98.3	82.8-130			
Toluene	2.04	0.050	mg/kg	2.00		102	86-128			
Ethylbenzene	2.18	0.050	mg/kg	2.00		109	85.9-128			
m,p-Xylene	4.33	0.100	mg/kg	4.00		108	89-129			
o-Xylene	2.15	0.050	mg/kg	2.00		108	86.1-125			
Total Xylenes	6.48	0.150	mg/kg	6.00		108	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0568		mg/kg	0.0500		114	71.5-134			

LCS Dup (3103068-BSD1)

Prepared: 30-Oct-23 Analyzed: 31-Oct-23

Benzene	2.10	0.050	mg/kg	2.00		105	82.8-130	6.56	15.8	
Toluene	2.11	0.050	mg/kg	2.00		105	86-128	3.42	15.9	
Ethylbenzene	2.22	0.050	mg/kg	2.00		111	85.9-128	1.89	16	
m,p-Xylene	4.38	0.100	mg/kg	4.00		109	89-129	1.09	16.2	
o-Xylene	2.17	0.050	mg/kg	2.00		109	86.1-125	1.04	16.7	
Total Xylenes	6.55	0.150	mg/kg	6.00		109	88.2-128	1.07	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	71.5-134			

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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
2617 W MARLAND
HOBBS NM, 88240

Project: LOBO
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
15-Nov-23 09:44

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 3103067 - General Prep - Organics**Blank (3103067-BLK1)**

Prepared: 30-Oct-23 Analyzed: 31-Oct-23

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0		91.8	48.2-134		
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0		103	49.1-148		

LCS (3103067-BS1)

Prepared: 30-Oct-23 Analyzed: 31-Oct-23

GRO C6-C10	184	10.0	mg/kg	200		91.9	66.4-123		
DRO >C10-C28	174	10.0	mg/kg	200		87.2	66.5-118		
Total TPH C6-C28	358	10.0	mg/kg	400		89.5	77.6-123		
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0		104	48.2-134		
Surrogate: 1-Chlorooctadecane	54.9		mg/kg	50.0		110	49.1-148		

LCS Dup (3103067-BS1)

Prepared: 30-Oct-23 Analyzed: 31-Oct-23

GRO C6-C10	190	10.0	mg/kg	200		94.8	66.4-123	3.05	17.7
DRO >C10-C28	183	10.0	mg/kg	200		91.3	66.5-118	4.69	21
Total TPH C6-C28	372	10.0	mg/kg	400		93.0	77.6-123	3.85	18.5
Surrogate: 1-Chlorooctane	51.8		mg/kg	50.0		104	48.2-134		
Surrogate: 1-Chlorooctadecane	55.2		mg/kg	50.0		110	49.1-148		

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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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as 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

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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

Page 21 of 22

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Joel Lawry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: P.O. Box 301				Company:																									
City: Lovington State: NM Zip: 88260				Attn:																									
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																									
Project #: Project Owner:				City:																									
Project Name: Loba				State: Zip:																									
Project Location:				Phone #:																									
Sampler Name: Martin Sepulveda				Fax #:																									
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																			
Lab I.D. #23FP143		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
1 FL#32@Lin																													
2 FE#34@Lin 34 WLS																													
3 FL#33@Lin																													
4 SHd																													
5 NHC *																													
6 WHC																													
7 EHF																													
8 SW-8																													
9 EW-5																													

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Relinquished By: [Signature]	Date: 10-29-23 Time: 7:00	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: * Customer requested ID changes to 11/14/23 Please email results to pm@etechenv.com.
Relinquished By:	Date: 10-30-23 Time: 17:02	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	4:30C	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) [Signature]

FORM-006
Revision 1.0

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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: 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: P.O. Box 301				Company:																									
City: Lovington		State: NM		Zip: 88260		Attn:																							
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:		City:																							
Project #:		Project Owner:		State:		Zip:																							
Project Name: Labo				Phone #:																									
Project Location:				Fax #:																									
Sampler Name: Martin Sepulveda																													
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															
10		NW-8												10-29-23		2:00													
11		EW-6																											
12		EW-7																											
13		SW-9																											
14		EW-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 reasons or otherwise.</p>																													
Relinquished By: [Signature]				Date: 10-29-23				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
Time: 2:00				Date: 10-30-23				Received By: [Signature]				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date: 10-30-23								REMARKS:																	
Time: 17:02																													
Delivered By: (Circle One)				43				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.													
Sampler - UPS - Bus - Other:								Cool Intact				(Initials)																	
								<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				24 hr. rush													

FORM-006

Revision 1.0

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

November 01, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO

Enclosed are the results of analyses for samples received by the laboratory on 10/31/23 16:45.

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: 10/31/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 10/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 24 @1 (H235973-01)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/01/2023	ND	1.87	93.5	2.00	0.667	
Toluene*	9.35	0.200	11/01/2023	ND	1.98	98.9	2.00	1.08	
Ethylbenzene*	5.91	0.200	11/01/2023	ND	2.00	99.9	2.00	0.445	
Total Xylenes*	61.5	0.600	11/01/2023	ND	5.96	99.4	6.00	0.776	
Total BTEx	76.8	1.20	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 186 % 71.5-134

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	11/01/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1170	10.0	11/01/2023	ND	185	92.3	200	2.58	
DRO >C10-C28*	3440	10.0	11/01/2023	ND	159	79.5	200	7.56	
EXT DRO >C28-C36	952	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 143 % 48.2-134

Surrogate: 1-Chlorooctadecane 161 % 49.1-148

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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: 10/31/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 10/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 14 (H235973-02)

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	11/01/2023	ND	1.87	93.5	2.00	0.667	
Toluene*	<0.050	0.050	11/01/2023	ND	1.98	98.9	2.00	1.08	
Ethylbenzene*	<0.050	0.050	11/01/2023	ND	2.00	99.9	2.00	0.445	
Total Xylenes*	0.223	0.150	11/01/2023	ND	5.96	99.4	6.00	0.776	
Total BTEX	<0.300	0.300	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7520	16.0	11/01/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2023	ND	185	92.3	200	2.58	
DRO >C10-C28*	75.8	10.0	11/01/2023	ND	159	79.5	200	7.56	
EXT DRO >C28-C36	53.9	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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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: 10/31/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 10/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 17 (H235973-03)

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	11/01/2023	ND	1.87	93.5	2.00	0.667		
Toluene*	<0.050	0.050	11/01/2023	ND	1.98	98.9	2.00	1.08		
Ethylbenzene*	<0.050	0.050	11/01/2023	ND	2.00	99.9	2.00	0.445		
Total Xylenes*	0.161	0.150	11/01/2023	ND	5.96	99.4	6.00	0.776		
Total BTEX	<0.300	0.300	11/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8500	16.0	11/01/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2023	ND	185	92.3	200	2.58	
DRO >C10-C28*	43.8	10.0	11/01/2023	ND	159	79.5	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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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: 10/31/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 10/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 18 (H235973-04)

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	11/01/2023	ND	1.87	93.5	2.00	0.667		
Toluene*	<0.050	0.050	11/01/2023	ND	1.98	98.9	2.00	1.08		
Ethylbenzene*	<0.050	0.050	11/01/2023	ND	2.00	99.9	2.00	0.445		
Total Xylenes*	0.166	0.150	11/01/2023	ND	5.96	99.4	6.00	0.776		
Total BTEX	<0.300	0.300	11/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8130	16.0	11/01/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2023	ND	185	92.3	200	2.58	
DRO >C10-C28*	37.9	10.0	11/01/2023	ND	159	79.5	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 49.1-148

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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: 10/31/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 10/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 19 (H235973-05)

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	11/01/2023	ND	1.87	93.5	2.00	0.667	
Toluene*	<0.050	0.050	11/01/2023	ND	1.98	98.9	2.00	1.08	
Ethylbenzene*	<0.050	0.050	11/01/2023	ND	2.00	99.9	2.00	0.445	
Total Xylenes*	<0.150	0.150	11/01/2023	ND	5.96	99.4	6.00	0.776	
Total BTEX	<0.300	0.300	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	11/01/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2023	ND	185	92.3	200	2.58	
DRO >C10-C28*	46.1	10.0	11/01/2023	ND	159	79.5	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 49.1-148

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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: 10/31/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 10/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 20 (H235973-06)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/01/2023	ND	1.87	93.5	2.00	0.667	
Toluene*	16.5	1.00	11/01/2023	ND	1.98	98.9	2.00	1.08	
Ethylbenzene*	8.74	1.00	11/01/2023	ND	2.00	99.9	2.00	0.445	
Total Xylenes*	113	3.00	11/01/2023	ND	5.96	99.4	6.00	0.776	
Total BTEX	138	6.00	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

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	11/01/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1690	10.0	11/01/2023	ND	185	92.3	200	2.58	
DRO >C10-C28*	4380	10.0	11/01/2023	ND	159	79.5	200	7.56	
EXT DRO >C28-C36	1110	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 154 % 48.2-134

Surrogate: 1-Chlorooctadecane 191 % 49.1-148

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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: 10/31/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 10/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 21 (H235973-07)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/01/2023	ND	1.87	93.5	2.00	0.667	
Toluene*	13.1	1.00	11/01/2023	ND	1.98	98.9	2.00	1.08	
Ethylbenzene*	6.87	1.00	11/01/2023	ND	2.00	99.9	2.00	0.445	
Total Xylenes*	93.5	3.00	11/01/2023	ND	5.96	99.4	6.00	0.776	
Total BTEX	113	6.00	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6560	16.0	11/01/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1300	10.0	11/01/2023	ND	185	92.3	200	2.58	
DRO >C10-C28*	3870	10.0	11/01/2023	ND	159	79.5	200	7.56	
EXT DRO >C28-C36	1050	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 138 % 48.2-134

Surrogate: 1-Chlorooctadecane 177 % 49.1-148

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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: 10/31/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 10/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 25 (H235973-08)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/01/2023	ND	1.87	93.5	2.00	0.667	
Toluene*	5.60	0.100	11/01/2023	ND	1.98	98.9	2.00	1.08	
Ethylbenzene*	3.79	0.100	11/01/2023	ND	2.00	99.9	2.00	0.445	
Total Xylenes*	39.9	0.300	11/01/2023	ND	5.96	99.4	6.00	0.776	
Total BTEX	49.3	0.600	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 195 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7760	16.0	11/01/2023	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*	836	10.0	11/01/2023	ND	185	92.3	200	2.58	
DRO >C10-C28*	2940	10.0	11/01/2023	ND	159	79.5	200	7.56	
EXT DRO >C28-C36	868	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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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: 10/31/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 10/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 26 (H235973-09)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2023	ND	1.87	93.5	2.00	0.667	
Toluene*	0.100	0.050	11/01/2023	ND	1.98	98.9	2.00	1.08	
Ethylbenzene*	0.116	0.050	11/01/2023	ND	2.00	99.9	2.00	0.445	
Total Xylenes*	1.65	0.150	11/01/2023	ND	5.96	99.4	6.00	0.776	
Total BTEX	1.87	0.300	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	11/01/2023	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*	60.8	10.0	11/01/2023	ND	185	92.3	200	2.58	
DRO >C10-C28*	789	10.0	11/01/2023	ND	159	79.5	200	7.56	
EXT DRO >C28-C36	232	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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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: 10/31/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 10/31/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 27 (H235973-10)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2023	ND	2.01	101	2.00	2.73	
Toluene*	0.317	0.050	11/01/2023	ND	2.06	103	2.00	5.24	
Ethylbenzene*	0.142	0.050	11/01/2023	ND	2.22	111	2.00	6.71	
Total Xylenes*	2.45	0.150	11/01/2023	ND	6.69	112	6.00	7.74	
Total BTEx	2.90	0.300	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	11/01/2023	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*	60.1	10.0	11/01/2023	ND	185	92.3	200	2.58	
DRO >C10-C28*	736	10.0	11/01/2023	ND	159	79.5	200	7.56	
EXT DRO >C28-C36	191	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS 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

[illegible]

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

November 01, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO

Enclosed are the results of analyses for samples received by the laboratory on 11/01/23 9:00.

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: 11/01/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 28 @1 (H235982-01)

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/01/2023	ND	1.87	93.5	2.00	0.667	
Toluene*	2.01	0.100	11/01/2023	ND	1.98	98.9	2.00	1.08	
Ethylbenzene*	2.03	0.100	11/01/2023	ND	2.00	99.9	2.00	0.445	
Total Xylenes*	44.0	0.300	11/01/2023	ND	5.96	99.4	6.00	0.776	
Total BTEX	48.1	0.600	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	11/01/2023	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*	1060	10.0	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	4550	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	965	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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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: 11/01/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 29 @1 (H235982-02)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/01/2023	ND	1.87	93.5	2.00	0.667	
Toluene*	2.55	0.100	11/01/2023	ND	1.98	98.9	2.00	1.08	
Ethylbenzene*	2.47	0.100	11/01/2023	ND	2.00	99.9	2.00	0.445	
Total Xylenes*	46.9	0.300	11/01/2023	ND	5.96	99.4	6.00	0.776	
Total BTEX	51.9	0.600	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 331 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	11/01/2023	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*	944	10.0	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	4090	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	841	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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: 11/01/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 30 @1 (H235982-03)

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	11/01/2023	ND	1.87	93.5	2.00	0.667	
Toluene*	0.079	0.050	11/01/2023	ND	1.98	98.9	2.00	1.08	
Ethylbenzene*	0.084	0.050	11/01/2023	ND	2.00	99.9	2.00	0.445	
Total Xylenes*	1.14	0.150	11/01/2023	ND	5.96	99.4	6.00	0.776	
Total BTEX	1.30	0.300	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9800	16.0	11/01/2023	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*	18.2	10.0	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	362	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	97.7	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/01/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 31 @1 (H235982-04)

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	11/01/2023	ND	1.87	93.5	2.00	0.667		
Toluene*	0.074	0.050	11/01/2023	ND	1.98	98.9	2.00	1.08		
Ethylbenzene*	0.087	0.050	11/01/2023	ND	2.00	99.9	2.00	0.445		
Total Xylenes*	1.08	0.150	11/01/2023	ND	5.96	99.4	6.00	0.776		
Total BTEX	1.24	0.300	11/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	11/01/2023	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*	23.2	10.0	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	462	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	117	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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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: 11/01/2023
 Reported: 11/01/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 47 @1 (H235982-05)

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	11/01/2023	ND	1.87	93.5	2.00	0.667	
Toluene*	<0.050	0.050	11/01/2023	ND	1.98	98.9	2.00	1.08	
Ethylbenzene*	<0.050	0.050	11/01/2023	ND	2.00	99.9	2.00	0.445	
Total Xylenes*	<0.150	0.150	11/01/2023	ND	5.96	99.4	6.00	0.776	
Total BTEX	<0.300	0.300	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	11/01/2023	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	11/01/2023	ND	184	92.0	200	1.92	
DRO >C10-C28*	<10.0	10.0	11/01/2023	ND	194	96.9	200	0.387	
EXT DRO >C28-C36	<10.0	10.0	11/01/2023	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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*=Accredited Analyte

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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

November 02, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 FRAC TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 11/01/23 15:34.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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:	11/01/2023	Sampling Date:	11/01/2023
Reported:	11/02/2023	Sampling Type:	Soil
Project Name:	LOBO 285 FRAC TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	16409	Sample Received By:	Tamara Oldaker
Project Location:	SOLARIS - EDDY CO., NM		

Sample ID: SW - 8B (H236001-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/01/2023	ND	1.86	92.9	2.00	3.04	
Toluene*	6.85	1.00	11/01/2023	ND	1.97	98.6	2.00	1.81	
Ethylbenzene*	5.11	1.00	11/01/2023	ND	1.99	99.6	2.00	1.94	
Total Xylenes*	80.1	3.00	11/01/2023	ND	6.02	100	6.00	2.07	
Total BTX	92.1	6.00	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	11/02/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	2620	10.0	11/02/2023	ND	198	99.0	200	7.07		
DRO >C10-C28*	8600	10.0	11/02/2023	ND	207	103	200	3.45		
EXT DRO >C28-C36	1840	10.0	11/02/2023	ND						

Surrogate: 1-Chlorooctane 353 % 48.2-134

Surrogate: 1-Chlorooctadecane 181 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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: 11/01/2023
 Reported: 11/02/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 11/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 9B (H236001-02)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/01/2023	ND	1.86	92.9	2.00	3.04	
Toluene*	9.00	1.00	11/01/2023	ND	1.97	98.6	2.00	1.81	
Ethylbenzene*	6.26	1.00	11/01/2023	ND	1.99	99.6	2.00	1.94	
Total Xylenes*	97.8	3.00	11/01/2023	ND	6.02	100	6.00	2.07	
Total BTEX	113	6.00	11/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	11/02/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2910	50.0	11/02/2023	ND	198	99.0	200	7.07	
DRO >C10-C28*	7500	50.0	11/02/2023	ND	207	103	200	3.45	
EXT DRO >C28-C36	1750	50.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 285 % 48.2-134

Surrogate: 1-Chlorooctadecane 237 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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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

November 03, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO

Enclosed are the results of analyses for samples received by the laboratory on 11/02/23 16:16.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For 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: 11/02/2023
 Reported: 11/03/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 20 (H236042-01)

BTX 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2023	ND	1.95	97.6	2.00	2.06	
Toluene*	0.883	0.050	11/03/2023	ND	2.09	105	2.00	2.63	
Ethylbenzene*	1.18	0.050	11/03/2023	ND	2.10	105	2.00	2.94	
Total Xylenes*	13.2	0.150	11/03/2023	ND	6.36	106	6.00	2.60	
Total BTX	15.3	0.300	11/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	11/03/2023	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*	425	10.0	11/03/2023	ND	208	104	200	2.77	
DRO >C10-C28*	2660	10.0	11/03/2023	ND	212	106	200	3.68	
EXT DRO >C28-C36	601	10.0	11/03/2023	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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: 11/02/2023
 Reported: 11/03/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL # 21 (H236042-02)

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/03/2023	ND	1.95	97.6	2.00	2.06	
Toluene*	6.58	0.500	11/03/2023	ND	2.09	105	2.00	2.63	
Ethylbenzene*	5.84	0.500	11/03/2023	ND	2.10	105	2.00	2.94	
Total Xylenes*	63.1	1.50	11/03/2023	ND	6.36	106	6.00	2.60	
Total BTEX	75.8	3.00	11/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	11/03/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2070	10.0	11/03/2023	ND	208	104	200	2.77	
DRO >C10-C28*	5950	10.0	11/03/2023	ND	212	106	200	3.68	
EXT DRO >C28-C36	1260	10.0	11/03/2023	ND					

Surrogate: 1-Chlorooctane 190 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Mike Snyder For 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: 11/02/2023
 Reported: 11/03/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 24 (H236042-03)

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	11/03/2023	ND	1.95	97.6	2.00	2.06	
Toluene*	0.234	0.050	11/03/2023	ND	2.09	105	2.00	2.63	
Ethylbenzene*	0.433	0.050	11/03/2023	ND	2.10	105	2.00	2.94	
Total Xylenes*	5.36	0.150	11/03/2023	ND	6.36	106	6.00	2.60	
Total BTEX	6.02	0.300	11/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	11/03/2023	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*	131	10.0	11/03/2023	ND	208	104	200	2.77	
DRO >C10-C28*	956	10.0	11/03/2023	ND	212	106	200	3.68	
EXT DRO >C28-C36	217	10.0	11/03/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Mike Snyder For 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: 11/02/2023
 Reported: 11/03/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 25 (H236042-04)

BTEx 8021B		mg/kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/03/2023	ND	1.95	97.6	2.00	2.06	
Toluene*	7.81	0.500	11/03/2023	ND	2.09	105	2.00	2.63	
Ethylbenzene*	6.75	0.500	11/03/2023	ND	2.10	105	2.00	2.94	
Total Xylenes*	71.9	1.50	11/03/2023	ND	6.36	106	6.00	2.60	
Total BTEX	86.8	3.00	11/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	11/03/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2460	10.0	11/03/2023	ND	208	104	200	2.77	
DRO >C10-C28*	6700	10.0	11/03/2023	ND	212	106	200	3.68	
EXT DRO >C28-C36	1390	10.0	11/03/2023	ND					

Surrogate: 1-Chlorooctane 201 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Analytical Results For:

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

Received: 11/02/2023
 Reported: 11/03/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 28 (H236042-05)

BTEx 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/03/2023	ND	1.95	97.6	2.00	2.06	
Toluene*	7.64	0.500	11/03/2023	ND	2.09	105	2.00	2.63	
Ethylbenzene*	6.89	0.500	11/03/2023	ND	2.10	105	2.00	2.94	
Total Xylenes*	71.8	1.50	11/03/2023	ND	6.36	106	6.00	2.60	
Total BTEX	86.5	3.00	11/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	11/03/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1520	10.0	11/03/2023	ND	203	102	200	2.17	
DRO >C10-C28*	3670	10.0	11/03/2023	ND	174	87.1	200	1.83	
EXT DRO >C28-C36	777	10.0	11/03/2023	ND					

Surrogate: 1-Chlorooctane 206 % 48.2-134

Surrogate: 1-Chlorooctadecane 174 % 49.1-148

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Analytical Results For:

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

Received: 11/02/2023
 Reported: 11/03/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 29 (H236042-06)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/03/2023	ND	1.95	97.6	2.00	2.06	
Toluene*	3.39	0.500	11/03/2023	ND	2.09	105	2.00	2.63	
Ethylbenzene*	2.27	0.500	11/03/2023	ND	2.10	105	2.00	2.94	
Total Xylenes*	35.7	1.50	11/03/2023	ND	6.36	106	6.00	2.60	
Total BTEX	41.6	3.00	11/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	11/03/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	586	10.0	11/03/2023	ND	203	102	200	2.17	
DRO >C10-C28*	1580	10.0	11/03/2023	ND	174	87.1	200	1.83	
EXT DRO >C28-C36	363	10.0	11/03/2023	ND					

Surrogate: 1-Chlorooctane 163 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

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

Received: 11/02/2023
 Reported: 11/03/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 32 (H236042-07)

BTEx 8021B		mg/kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.606	0.500	11/03/2023	ND	1.95	97.6	2.00	2.06	GC-NC1
Toluene*	13.0	0.500	11/03/2023	ND	2.09	105	2.00	2.63	
Ethylbenzene*	10.3	0.500	11/03/2023	ND	2.10	105	2.00	2.94	
Total Xylenes*	114	1.50	11/03/2023	ND	6.36	106	6.00	2.60	
Total BTEX	138	3.00	11/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	11/03/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2200	10.0	11/03/2023	ND	203	102	200	2.17	
DRO >C10-C28*	5640	10.0	11/03/2023	ND	174	87.1	200	1.83	
EXT DRO >C28-C36	1070	10.0	11/03/2023	ND					

Surrogate: 1-Chlorooctane 264 % 48.2-134

Surrogate: 1-Chlorooctadecane 229 % 49.1-148

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Mike Snyder For 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: 11/02/2023
 Reported: 11/03/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 33 (H236042-08)

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	11/03/2023	ND	1.95	97.6	2.00	2.06	
Toluene*	0.518	0.050	11/03/2023	ND	2.09	105	2.00	2.63	
Ethylbenzene*	0.301	0.050	11/03/2023	ND	2.10	105	2.00	2.94	
Total Xylenes*	7.44	0.150	11/03/2023	ND	6.36	106	6.00	2.60	
Total BTEX	8.28	0.300	11/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

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	11/03/2023	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*	158	10.0	11/03/2023	ND	203	102	200	2.17	
DRO >C10-C28*	1080	10.0	11/03/2023	ND	174	87.1	200	1.83	
EXT DRO >C28-C36	247	10.0	11/03/2023	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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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: 11/02/2023
 Reported: 11/03/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 34 (H236042-09)

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	11/03/2023	ND	1.95	97.6	2.00	2.06	
Toluene*	0.200	0.050	11/03/2023	ND	2.09	105	2.00	2.63	
Ethylbenzene*	0.188	0.050	11/03/2023	ND	2.10	105	2.00	2.94	
Total Xylenes*	4.60	0.150	11/03/2023	ND	6.36	106	6.00	2.60	
Total BTEX	4.99	0.300	11/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	11/03/2023	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*	182	10.0	11/03/2023	ND	203	102	200	2.17	
DRO >C10-C28*	1180	10.0	11/03/2023	ND	174	87.1	200	1.83	
EXT DRO >C28-C36	268	10.0	11/03/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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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: 11/02/2023
 Reported: 11/03/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW - 6 (H236042-10)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/03/2023	ND	1.95	97.6	2.00	2.06	
Toluene*	3.94	0.500	11/03/2023	ND	2.09	105	2.00	2.63	
Ethylbenzene*	2.60	0.500	11/03/2023	ND	2.10	105	2.00	2.94	
Total Xylenes*	41.0	1.50	11/03/2023	ND	6.36	106	6.00	2.60	
Total BTEX	47.8	3.00	11/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	11/03/2023	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*	425	10.0	11/03/2023	ND	203	102	200	2.17	
DRO >C10-C28*	1060	10.0	11/03/2023	ND	174	87.1	200	1.83	
EXT DRO >C28-C36	221	10.0	11/03/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received: 11/02/2023
 Reported: 11/03/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/02/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW - 7 (H236042-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	11/03/2023	ND	1.95	97.6	2.00	2.06		
Toluene*	3.55	0.500	11/03/2023	ND	2.09	105	2.00	2.63		
Ethylbenzene*	2.36	0.500	11/03/2023	ND	2.10	105	2.00	2.94		
Total Xylenes*	37.8	1.50	11/03/2023	ND	6.36	106	6.00	2.60		
Total BTEX	44.0	3.00	11/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	11/03/2023	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*	483	10.0	11/03/2023	ND	203	102	200	2.17	
DRO >C10-C28*	1270	10.0	11/03/2023	ND	174	87.1	200	1.83	
EXT DRO >C28-C36	266	10.0	11/03/2023	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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 "Mike Snyder".

Mike Snyder For 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

Page 14 of 15

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: <i>Jeri Lawry</i>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																		
Address: P.O. Box 301				Company:																						
City: Lovington State: NM Zip: 88260				Attn:																						
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																						
Project #: Project Owner:				City:																						
Project Name: <i>Laba</i>				State: Zip:																						
Project Location:				Phone #:																						
Sampler Name: <i>Martin Sepulveda</i>				Fax #:																						
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING																
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME												
<i>H236042</i>																										
1	FL#20					/				/			11-2-23	11:30	/	/	/									
2	FL#21					/				/					/	/	/									
3	FL24					/				/					/	/	/									
4	FL25					/				/					/	/	/									
5	FL28					/				/					/	/	/									
6	FL29					/				/					/	/	/									
7	FL32					/				/					/	/	/									
8	FL33					/				/					/	/	/									
9	FL34					/				/					/	/	/									
10	FL-6					/				/					/	/	/									
<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 reasons or otherwise.</p>																										
Relinquished By: <i>[Signature]</i>		Date: <i>11-2-23</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		<p>REMARKS: <i>Rush!</i></p> <p>Please email results to pm@etechenv.com.</p> <p><i>24 hrs</i></p>																
Time: <i>11:30</i>		Date: <i>11/2/23</i>		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																		
Time:																										
Delivered By: (Circle One)				#40				Sample Condition				CHECKED BY: (Initials)														
<input checked="" type="radio"/> UPS - <input type="radio"/> Bus - <input type="radio"/> Other:				4.9°C				<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				<i>YO.</i>														

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]

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

November 06, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO

Enclosed are the results of analyses for samples received by the laboratory on 11/03/23 16:38.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is 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: 11/03/2023
 Reported: 11/06/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 8 (H236060-01)

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	11/04/2023	ND	2.11	105	2.00	3.14		
Toluene*	<0.050	0.050	11/04/2023	ND	1.97	98.5	2.00	6.66		
Ethylbenzene*	<0.050	0.050	11/04/2023	ND	2.05	102	2.00	8.36		
Total Xylenes*	<0.150	0.150	11/04/2023	ND	6.14	102	6.00	9.24		
Total BTEX	<0.300	0.300	11/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	11/06/2023	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	11/05/2023	ND	197	98.4	200	2.75	
DRO >C10-C28*	122	10.0	11/05/2023	ND	213	107	200	2.32	
EXT DRO >C28-C36	22.6	10.0	11/05/2023	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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: 11/03/2023
 Reported: 11/06/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 9 (H236060-02)

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	11/04/2023	ND	2.11	105	2.00	3.14		
Toluene*	<0.050	0.050	11/04/2023	ND	1.97	98.5	2.00	6.66		
Ethylbenzene*	<0.050	0.050	11/04/2023	ND	2.05	102	2.00	8.36		
Total Xylenes*	<0.150	0.150	11/04/2023	ND	6.14	102	6.00	9.24		
Total BTEX	<0.300	0.300	11/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

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	11/06/2023	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	11/05/2023	ND	197	98.4	200	2.75	
DRO >C10-C28*	67.7	10.0	11/05/2023	ND	213	107	200	2.32	
EXT DRO >C28-C36	27.7	10.0	11/05/2023	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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.
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".

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

November 07, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO

Enclosed are the results of analyses for samples received by the laboratory on 11/06/23 16:26.

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: 11/06/2023
 Reported: 11/07/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 24 (H236076-01)

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	11/06/2023	ND	1.88	94.1	2.00	1.45	
Toluene*	<0.050	0.050	11/06/2023	ND	2.03	102	2.00	0.383	
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.07	103	2.00	0.884	
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.24	104	6.00	0.776	
Total BTEx	<0.300	0.300	11/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	11/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	200	99.9	200	0.594	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	188	94.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane 60.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 54.2 % 49.1-148

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: 11/06/2023
 Reported: 11/07/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 25 (H236076-02)

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	11/06/2023	ND	1.88	94.1	2.00	1.45	
Toluene*	<0.050	0.050	11/06/2023	ND	2.03	102	2.00	0.383	
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.07	103	2.00	0.884	
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.24	104	6.00	0.776	
Total BTEX	<0.300	0.300	11/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	11/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	24.7	10.0	11/07/2023	ND	200	99.9	200	0.594	
DRO >C10-C28*	171	10.0	11/07/2023	ND	188	94.1	200	1.74	
EXT DRO >C28-C36	13.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane 66.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.1 % 49.1-148

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: 11/06/2023
 Reported: 11/07/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 28 (H236076-03)

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	11/06/2023	ND	1.88	94.1	2.00	1.45		
Toluene*	<0.050	0.050	11/06/2023	ND	2.03	102	2.00	0.383		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.07	103	2.00	0.884		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.24	104	6.00	0.776		
Total BTEx	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	11/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	200	99.9	200	0.594	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	188	94.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane 61.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 53.6 % 49.1-148

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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: 11/06/2023
 Reported: 11/07/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 29 (H236076-04)

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	11/06/2023	ND	1.88	94.1	2.00	1.45		
Toluene*	<0.050	0.050	11/06/2023	ND	2.03	102	2.00	0.383		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.07	103	2.00	0.884		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.24	104	6.00	0.776		
Total BTEX	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	11/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	200	99.9	200	0.594	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	188	94.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane 60.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 52.9 % 49.1-148

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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: 11/06/2023
 Reported: 11/07/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 20 (H236076-05)

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	11/06/2023	ND	1.88	94.1	2.00	1.45		
Toluene*	<0.050	0.050	11/06/2023	ND	2.03	102	2.00	0.383		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.07	103	2.00	0.884		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.24	104	6.00	0.776		
Total BTEX	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	11/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	200	99.9	200	0.594	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	188	94.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 49.1-148

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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: 11/06/2023
 Reported: 11/07/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 21 (H236076-06)

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	11/06/2023	ND	1.88	94.1	2.00	1.45	
Toluene*	<0.050	0.050	11/06/2023	ND	2.03	102	2.00	0.383	
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.07	103	2.00	0.884	
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.24	104	6.00	0.776	
Total BTEX	<0.300	0.300	11/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	11/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	200	99.9	200	0.594	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	188	94.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane 59.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 51.5 % 49.1-148

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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: 11/06/2023
 Reported: 11/07/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 32 (H236076-07)

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	11/06/2023	ND	1.88	94.1	2.00	1.45	
Toluene*	<0.050	0.050	11/06/2023	ND	2.03	102	2.00	0.383	
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.07	103	2.00	0.884	
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.24	104	6.00	0.776	
Total BTEX	<0.300	0.300	11/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	11/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	200	99.9	200	0.594	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	188	94.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane 61.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 53.7 % 49.1-148

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Analytical Results For:

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

Received: 11/06/2023
 Reported: 11/07/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 33 (H236076-08)

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	11/06/2023	ND	1.88	94.1	2.00	1.45		
Toluene*	<0.050	0.050	11/06/2023	ND	2.03	102	2.00	0.383		
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.07	103	2.00	0.884		
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.24	104	6.00	0.776		
Total BTEx	<0.300	0.300	11/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

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	11/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	200	99.9	200	0.594	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	188	94.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.5 % 49.1-148

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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: 11/06/2023
 Reported: 11/07/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 34 (H236076-09)

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	11/06/2023	ND	1.88	94.1	2.00	1.45	
Toluene*	<0.050	0.050	11/06/2023	ND	2.03	102	2.00	0.383	
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.07	103	2.00	0.884	
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.24	104	6.00	0.776	
Total BTEX	<0.300	0.300	11/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	11/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	200	99.9	200	0.594	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	188	94.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.6 % 49.1-148

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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: 11/06/2023
 Reported: 11/07/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW 6 (H236076-10)

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	11/06/2023	ND	1.88	94.1	2.00	1.45	
Toluene*	<0.050	0.050	11/06/2023	ND	2.03	102	2.00	0.383	
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.07	103	2.00	0.884	
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.24	104	6.00	0.776	
Total BTEx	<0.300	0.300	11/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

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	11/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	200	99.9	200	0.594	
DRO >C10-C28*	138	10.0	11/07/2023	ND	188	94.1	200	1.74	
EXT DRO >C28-C36	32.5	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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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: 11/06/2023
 Reported: 11/07/2023
 Project Name: LOBO
 Project Number: NONE GIVEN
 Project Location: LOVINGTON, NM

Sampling Date: 11/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW 7 (H236076-11)

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	11/06/2023	ND	1.88	94.1	2.00	1.45	
Toluene*	<0.050	0.050	11/06/2023	ND	2.03	102	2.00	0.383	
Ethylbenzene*	<0.050	0.050	11/06/2023	ND	2.07	103	2.00	0.884	
Total Xylenes*	<0.150	0.150	11/06/2023	ND	6.24	104	6.00	0.776	
Total BTEX	<0.300	0.300	11/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	11/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	212	106	200	0.482	
DRO >C10-C28*	258	10.0	11/07/2023	ND	216	108	200	1.37	
EXT DRO >C28-C36	133	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 14 of 15

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Joel Lawry</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: P.O. Box 301				Company:															
City: Lovington State: NM Zip: 88260				Attn:															
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:															
Project #: Project Owner:				City:															
Project Name: <u>labo</u>				State: Zip:															
Project Location:				Phone #:															
Sampler Name: <u>Martin Sepulveda</u>				Fax #:															
FOR LAB USE ONLY		Sample I.D.		(GRAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING		DATE		TIME			
H23 6076 Lab I.D.								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:									
1		FL 24												11-6-23		12:00			
2		FL 25																	
3		FL 28																	
4		FL 29																	
5		FL 20																	
6		FL 21																	
7		FL 32																	
8		FL 33																	
9		FL 34																	
<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 reasons or otherwise.</p>																			
Relinquished By: <u>Eddie GAYAN</u>				Date: <u>11-6-23</u>		Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:					
				Time: <u>16:26</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:					
Relinquished By:				Date:		Received By:				REMARKS:									
				Time:						<u>AWH 24 hr.</u> Please email results to pm@etechenv.com.									
Delivered By: (Circle One)				5.5°C		Sample Condition				CHECKED BY:									
Sampler - UPS - Bus - Other:						Cool Intact				(Initials)									
						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									

FORM-006
Revision 1.0

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

November 21, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 FRAC TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 11/17/23 14:03.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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: 11/17/2023
 Reported: 11/21/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SH - 2 A (H236304-01)

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	11/20/2023	ND	1.99	99.5	2.00	3.74	
Toluene*	<0.050	0.050	11/20/2023	ND	2.07	103	2.00	4.61	
Ethylbenzene*	<0.050	0.050	11/20/2023	ND	2.07	103	2.00	4.41	
Total Xylenes*	<0.150	0.150	11/20/2023	ND	6.27	104	6.00	4.28	
Total BTX	<0.300	0.300	11/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

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	11/20/2023	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	11/18/2023	ND	211	105	200	9.87	
DRO >C10-C28*	187	10.0	11/18/2023	ND	212	106	200	8.62	
EXT DRO >C28-C36	72.5	10.0	11/18/2023	ND					

Surrogate: 1-Chlorooctane 74.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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: 11/17/2023
 Reported: 11/21/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WH - 2 (H236304-02)

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	11/20/2023	ND	1.99	99.5	2.00	3.74		
Toluene*	<0.050	0.050	11/20/2023	ND	2.07	103	2.00	4.61		
Ethylbenzene*	<0.050	0.050	11/20/2023	ND	2.07	103	2.00	4.41		
Total Xylenes*	<0.150	0.150	11/20/2023	ND	6.27	104	6.00	4.28		
Total BTEX	<0.300	0.300	11/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

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	11/20/2023	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	11/20/2023	ND	211	105	200	9.87	
DRO >C10-C28*	220	10.0	11/20/2023	ND	212	106	200	8.62	
EXT DRO >C28-C36	86.5	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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: 11/17/2023
 Reported: 11/21/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 11/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WH - 3 (H236304-03)

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	11/20/2023	ND	1.99	99.5	2.00	3.74		
Toluene*	<0.050	0.050	11/20/2023	ND	2.07	103	2.00	4.61		
Ethylbenzene*	<0.050	0.050	11/20/2023	ND	2.07	103	2.00	4.41		
Total Xylenes*	<0.150	0.150	11/20/2023	ND	6.27	104	6.00	4.28		
Total BTEX	<0.300	0.300	11/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	11/20/2023	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	11/20/2023	ND	211	105	200	9.87	
DRO >C10-C28*	144	10.0	11/20/2023	ND	212	106	200	8.62	
EXT DRO >C28-C36	51.2	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 61.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For 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

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FORM-006
Revision 1.0

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

November 29, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 FRAC TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 11/22/23 15:54.

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 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: 11/22/2023
 Reported: 11/29/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 11/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WH3 - A (H236379-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	11/27/2023	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	11/27/2023	ND	226	113	200	3.72	
DRO >C10-C28*	24.3	10.0	11/27/2023	ND	229	114	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	11/27/2023	ND					
Surrogate: 1-Chlorooctane	80.3 %	48.2-134							
Surrogate: 1-Chlorooctadecane	96.0 %	49.1-148							

Sample ID: SH2 - C (H236379-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	11/27/2023	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	11/27/2023	ND	226	113	200	3.72		
DRO >C10-C28*	31.5	10.0	11/27/2023	ND	229	114	200	4.05		
EXT DRO >C28-C36	16.3	10.0	11/27/2023	ND						
Surrogate: 1-Chlorooctane	76.7 %	48.2-134								
Surrogate: 1-Chlorooctadecane	86.3 %	49.1-148								

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: 11/22/2023
 Reported: 11/29/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 11/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WH2 - B (H236379-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	11/27/2023	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	11/27/2023	ND	226	113	200	3.72		
DRO >C10-C28*	102	10.0	11/27/2023	ND	229	114	200	4.05		
EXT DRO >C28-C36	35.4	10.0	11/27/2023	ND						
Surrogate: 1-Chlorooctane	76.5 %	48.2-134								
Surrogate: 1-Chlorooctadecane	87.0 %	49.1-148								

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.
- 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".

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

December 11, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 FRAC TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 12/06/23 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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: 12/06/2023
 Reported: 12/11/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 12/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WH3 - C (H236561-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/07/2023	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/07/2023	ND	198	99.0	200	2.32		
DRO >C10-C28*	<10.0	10.0	12/07/2023	ND	204	102	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	12/07/2023	ND						
Surrogate: 1-Chlorooctane	101 %	48.2-134								
Surrogate: 1-Chlorooctadecane	114 %	49.1-148								

Sample ID: SH2 - D (H236561-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/07/2023	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/07/2023	ND	198	99.0	200	2.32		
DRO >C10-C28*	<10.0	10.0	12/07/2023	ND	204	102	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	12/07/2023	ND						
Surrogate: 1-Chlorooctane	102 %	48.2-134								
Surrogate: 1-Chlorooctadecane	114 %	49.1-148								

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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: 12/06/2023
 Reported: 12/11/2023
 Project Name: LOBO 285 FRAC TANK OVERFLOW
 Project Number: 16409
 Project Location: SOLARIS - EDDY CO., NM

Sampling Date: 12/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WH2 - C (H236561-03)

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	12/07/2023	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/07/2023	ND	198	99.0	200	2.32		
DRO >C10-C28*	<10.0	10.0	12/07/2023	ND	204	102	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	12/07/2023	ND						
Surrogate: 1-Chlorooctane		94.8 %	48.2-134							
Surrogate: 1-Chlorooctadecane		106 %	49.1-148							

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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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

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: Solaris																											
City: Hobbs State: NM Zip: 88240				Attn: Rob Kirk																											
Phone #: (575) 264-9884 Fax #:				Address:																											
Project #: 16409 Project Owner: Solaris				City:																											
Project Name: Lobo 285 Frac Tank Overflow				State: NM Zip:																											
Project Location: Rural Eddy				Phone #:																											
Sampler Name: Eddie Gayton				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			
H236561				C		1						X								X				12/6/23				X		X	
2		SH2-D		C		1						X								X				12/6/23				X		X	
3		WH2-C		C		1						X								X				12/6/23				X		X	

Appendix E
Laboratory Analytical Reports
(nAPP2135135752 - Commingled Area)



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

October 03, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 09/27/23 16:28.

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: 09/27/2023
 Reported: 10/03/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 1 @ 3' (H235284-01)

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	10/01/2023	ND	1.82	90.9	2.00	0.0829	
Toluene*	<0.050	0.050	10/01/2023	ND	2.02	101	2.00	1.09	
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.13	106	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/01/2023	ND	6.36	106	6.00	2.04	
Total BTX	<0.300	0.300	10/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/29/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	103	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	99.4	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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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: 09/27/2023
 Reported: 10/03/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 2 @ 3' (H235284-02)

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	10/01/2023	ND	1.82	90.9	2.00	0.0829	
Toluene*	<0.050	0.050	10/01/2023	ND	2.02	101	2.00	1.09	GC-NC
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.13	106	2.00	1.52	GC-NC
Total Xylenes*	0.305	0.150	10/01/2023	ND	6.36	106	6.00	2.04	GC-NC1
Total BTEX	0.305	0.300	10/01/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	09/29/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	135	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	9920	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	3590	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 320 % 49.1-148

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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: 09/27/2023
 Reported: 10/03/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 3 @ 3' (H235284-03)

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	10/01/2023	ND	1.82	90.9	2.00	0.0829	
Toluene*	<0.050	0.050	10/01/2023	ND	2.02	101	2.00	1.09	
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.13	106	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/01/2023	ND	6.36	106	6.00	2.04	
Total BTEX	<0.300	0.300	10/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/29/2023	ND	448	112	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	88.5	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	61.3	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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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: 09/27/2023
 Reported: 10/03/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 4 @ 3' (H235284-04)

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	10/01/2023	ND	1.82	90.9	2.00	0.0829	
Toluene*	<0.050	0.050	10/01/2023	ND	2.02	101	2.00	1.09	
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.13	106	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/01/2023	ND	6.36	106	6.00	2.04	
Total BTEX	<0.300	0.300	10/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/29/2023	ND	448	112	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	<10.0	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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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: 09/27/2023
 Reported: 10/03/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 5 @ 3' (H235284-05)

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	10/01/2023	ND	1.82	90.9	2.00	0.0829	
Toluene*	<0.050	0.050	10/01/2023	ND	2.02	101	2.00	1.09	
Ethylbenzene*	<0.050	0.050	10/01/2023	ND	2.13	106	2.00	1.52	
Total Xylenes*	<0.150	0.150	10/01/2023	ND	6.36	106	6.00	2.04	
Total BTX	<0.300	0.300	10/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	09/29/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	227	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	168	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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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: 09/27/2023
 Reported: 10/03/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 8 @ 3' (H235284-06)

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	09/29/2023	ND	1.77	88.5	2.00	5.61		
Toluene*	<0.050	0.050	09/29/2023	ND	1.94	97.0	2.00	0.850		
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	2.06	103	2.00	0.309		
Total Xylenes*	<0.150	0.150	09/29/2023	ND	6.09	101	6.00	1.67		
Total BTX	<0.300	0.300	09/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	09/29/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	1510	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	68.5	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 299 % 49.1-148

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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: 09/27/2023
 Reported: 10/03/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 9 @ 3' (H235284-07)

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	09/29/2023	ND	1.77	88.5	2.00	5.61	
Toluene*	<0.050	0.050	09/29/2023	ND	1.94	97.0	2.00	0.850	
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	2.06	103	2.00	0.309	
Total Xylenes*	<0.150	0.150	09/29/2023	ND	6.09	101	6.00	1.67	
Total BTX	<0.300	0.300	09/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	09/29/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	145	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	32.2	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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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: 09/27/2023
 Reported: 10/03/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 10 @ 3' (H235284-08)

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	09/29/2023	ND	1.77	88.5	2.00	5.61		
Toluene*	<0.050	0.050	09/29/2023	ND	1.94	97.0	2.00	0.850		
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	2.06	103	2.00	0.309		
Total Xylenes*	<0.150	0.150	09/29/2023	ND	6.09	101	6.00	1.67		
Total BTX	<0.300	0.300	09/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20000	16.0	09/29/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2023	ND	192	96.2	200	2.20	
DRO >C10-C28*	2860	10.0	09/29/2023	ND	185	92.3	200	2.01	
EXT DRO >C28-C36	1200	10.0	09/29/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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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: 09/27/2023
 Reported: 10/03/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 11 @ 3' (H235284-09)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2023	ND	1.77	88.5	2.00	5.61	
Toluene*	<0.050	0.050	09/29/2023	ND	1.94	97.0	2.00	0.850	
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	2.06	103	2.00	0.309	
Total Xylenes*	0.789	0.150	09/29/2023	ND	6.09	101	6.00	1.67	GC-NC1
Total BTEX	0.789	0.300	09/29/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	09/29/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	09/29/2023	ND	201	100	200	3.57	
DRO >C10-C28*	12200	100	09/29/2023	ND	210	105	200	4.62	QM-07, QR-03
EXT DRO >C28-C36	4790	100	09/29/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 513 % 49.1-148

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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: 09/27/2023
 Reported: 10/03/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/27/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 12 @ 3' (H235284-10)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2023	ND	1.77	88.5	2.00	5.61	
Toluene*	<0.050	0.050	09/29/2023	ND	1.94	97.0	2.00	0.850	
Ethylbenzene*	<0.050	0.050	09/29/2023	ND	2.06	103	2.00	0.309	
Total Xylenes*	0.726	0.150	09/29/2023	ND	6.09	101	6.00	1.67	GC-NC1
Total BTEX	0.726	0.300	09/29/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 138 % 71.5-134

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	09/29/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	09/29/2023	ND	201	100	200	3.57	
DRO >C10-C28*	14600	100	09/29/2023	ND	210	105	200	4.62	
EXT DRO >C28-C36	5680	100	09/29/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 606 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as 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

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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: Etech Environmental				BILL TO				ANALYSIS REQUEST													
Project Manager: Joel Lowry				P.O. #:																	
Address: 2617 W Marland Blvd				Company: Solaris Midstream																	
City: Hobbs		State: NM		Zip: 88240		Attn: Rob Kirk															
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:		City:															
Project #: 15510		Project Owner: Solaris Water Midstream, LLC		State:		Zip:															
Project Name: Lobo 285 SWD Water Reuse				Phone #:																	
Project Location: UL/ A Sec 22 T25S - R28E				Fax #:																	
Sampler Name: Aaron Rios																					
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		MATRIX		PRESERV.		SAMPLING													
H235284																					
1 FL #1 @ 3'																					
2 FL #2 @ 3'																					
3 FL #3 @ 3'																					
4 FL #4 @ 3'																					
5 FL #5 @ 3'																					
6 FL #8 @ 3'																					
7 FL #9 @ 3'																					
8 FL #10 @ 3'																					
9 FL #11 @ 3'																					
10 FL #12 @ 3'																					

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Relinquished By:		Date: 9/27/23		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Aaron Rios		Time: 16:28		[Signature]		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: Email results to pm@etechenv.com			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		(Initials)			
4.0°C				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		[Signature]			

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



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

October 05, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 09/29/23 14:35.

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: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 13 @ 3' (H235330-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	180	89.8	200	8.80	
DRO >C10-C28*	4580	10.0	10/02/2023	ND	184	92.1	200	13.2	
EXT DRO >C28-C36	1860	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 209 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 14 @ 3' (H235330-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEx	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19200	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	37.6	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	10.3	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 15 @ 3' (H235330-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEx	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	44.1	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	24.0	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

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

Received: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 16 @ 3' (H235330-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEx	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	3040	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	1370	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Analytical Results For:

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

Received: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 17 @ 3' (H235330-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEX	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16400	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.1	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	6110	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	2110	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 218 % 49.1-148

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Analytical Results For:

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

Received: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 18 @ 3' (H235330-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	0.253	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTX	<0.300	0.300	10/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	10/02/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.8	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	6350	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	2150	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 181 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Fax To:

Received: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 19 @ 3' (H235330-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	0.051	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	0.598	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEx	0.649	0.300	10/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	10/03/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	15300	100	10/03/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	5570	100	10/03/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 539 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
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Received: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 20 @ 3' (H235330-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEx	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	10/02/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	39.4	10.0	10/03/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	10/03/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Analytical Results For:

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

Received: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 21 @ 3' (H235330-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEx	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

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	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	1180	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	625	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Analytical Results For:

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

Received: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 22 @ 3' (H235330-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEx	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	151	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	66.2	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
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 Fax To:

Received: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 23 @ 3' (H235330-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEX	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	10/02/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	10.8	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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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: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 24 @ 3' (H235330-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEx	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

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	10/02/2023	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	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	377	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	273	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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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: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 25 @ 3' (H235330-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEx	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	10/02/2023	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	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	2680	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	1230	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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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: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 26 @ 3' (H235330-14)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72	
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04	
Total BTEX	<0.300	0.300	10/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	10/02/2023	ND	400	100	400	3.92	

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	3400	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	1390	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 149 % 49.1-148

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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: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 27 @ 3' (H235330-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEx	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	10/02/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	2050	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	840	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 158 % 49.1-148

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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: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 28 @ 6' (H235330-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEx	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	10/02/2023	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	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	42.6	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	26.4	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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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: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 29 @ 3' (H235330-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEx	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	10/02/2023	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	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	215	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	119	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

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

Received: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 30 @ 3' (H235330-18)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTX	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5360	16.0	10/02/2023	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	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	276	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	153	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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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: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 31 @ 3' (H235330-19)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEX	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	10/02/2023	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	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	69.4	10.0	10/02/2023	ND	192	96.1	200	1.20	
EXT DRO >C28-C36	46.9	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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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: 09/29/2023
 Reported: 10/05/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 09/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL # 32 @ 3' (H235330-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	1.98	99.2	2.00	2.72		
Toluene*	<0.050	0.050	10/02/2023	ND	2.06	103	2.00	4.37		
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.04	102	2.00	4.79		
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.19	103	6.00	5.04		
Total BTEX	<0.300	0.300	10/02/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13800	16.0	10/02/2023	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	10/02/2023	ND	190	94.9	200	3.88	
DRO >C10-C28*	614	10.0	10/02/2023	ND	192	96.1	200	1.20	QM-07
EXT DRO >C28-C36	337	10.0	10/02/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS 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

[illegible]

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Relinquished By: <i>Acorn Rio</i>	Date: <i>1/29/23</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>14:35</i>	<i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email results to pm@etechenv.com	
	Time:			
Delivered By: (Circle One) <u>Sampler</u> - UPS - Bus - Other:	<i>-9.3°</i>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <i>[Signature]</i>	
	<i>#140</i>			

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental				BILL TO				ANALYSIS REQUEST																											
Project Manager: Joel Lowry				P.O. #:																															
Address: 2617 W Marland Blvd				Company: Solaris Midstream																															
City: Hobbs		State: NM		Zip: 88240		Attn: Rob Kirk																													
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:		City:																													
Project #: 15510		Project Owner: Solaris Water Midstream, LLC		State:		Zip:																													
Project Name: Lobo 285 SWD Water Reuse				Phone #:		Fax #:																													
Project Location: UL/ A Sec 22 T2S - R28E				Sampler Name: Aaron Rios																															
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		Chloride		TPH		BTEX 8021	
H2355330				X								X								X		X		X		9/28/13									
11 FL # 23 @ 3'																																			
12 FL # 24 @ 3'																																			
13 FL # 25 @ 3'																																			
14 FL # 26 @ 3'																																			
15 FL # 27 @ 3'																																			
16 FL # 28 @ 6'																																			
17 FL # 29 @ 3'																																			
18 FL # 30 @ 3'																																			
19 FL # 31 @ 3'																																			
20 FL # 32 @ 3'																																			

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Relinquished By:	Date: 9/29/13	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Aaron Rios	Time: 14:35	[Signature]	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email results to pm@etechenv.com	
	Time:			
Delivered By: (Circle One)	9.32	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	#140	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	DA	

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



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

October 11, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 10/06/23 16:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style 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: 10/06/2023
 Reported: 10/11/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 48 @ 6 IN. (H235472-01)

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	10/09/2023	ND	2.04	102	2.00	5.14		
Toluene*	<0.050	0.050	10/09/2023	ND	2.01	100	2.00	5.50		
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.10	105	2.00	5.31		
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.18	103	6.00	5.62		
Total BTEX	<0.300	0.300	10/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	10/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	213	106	200	4.58	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	228	114	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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: 10/06/2023
 Reported: 10/11/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 49 @ 6 IN. (H235472-02)

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	10/09/2023	ND	2.04	102	2.00	5.14		
Toluene*	<0.050	0.050	10/09/2023	ND	2.01	100	2.00	5.50		
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.10	105	2.00	5.31		
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.18	103	6.00	5.62		
Total BTEx	<0.300	0.300	10/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

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	10/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	200	100	200	3.96	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	215	107	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/06/2023
 Reported: 10/11/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 50 @ 6 IN. (H235472-03)

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	10/09/2023	ND	2.04	102	2.00	5.14		
Toluene*	<0.050	0.050	10/09/2023	ND	2.01	100	2.00	5.50		
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.10	105	2.00	5.31		
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.18	103	6.00	5.62		
Total BTEx	<0.300	0.300	10/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7600	16.0	10/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	200	100	200	3.96	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	215	107	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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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: 10/06/2023
 Reported: 10/11/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 51 @ 6 IN. (H235472-04)

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	10/09/2023	ND	2.04	102	2.00	5.14		
Toluene*	<0.050	0.050	10/09/2023	ND	2.01	100	2.00	5.50		
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.10	105	2.00	5.31		
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.18	103	6.00	5.62		
Total BTX	<0.300	0.300	10/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18400	16.0	10/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	200	100	200	3.96	
DRO >C10-C28*	11.1	10.0	10/09/2023	ND	215	107	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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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: 10/06/2023
 Reported: 10/11/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 52 @ 6 IN. (H235472-05)

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	10/09/2023	ND	2.04	102	2.00	5.14		
Toluene*	<0.050	0.050	10/09/2023	ND	2.01	100	2.00	5.50		
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.10	105	2.00	5.31		
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.18	103	6.00	5.62		
Total BTX	<0.300	0.300	10/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13300	16.0	10/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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: 10/06/2023
 Reported: 10/11/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 53 @ 6 IN. (H235472-06)

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	10/09/2023	ND	2.04	102	2.00	5.14		
Toluene*	<0.050	0.050	10/09/2023	ND	2.01	100	2.00	5.50		
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	2.10	105	2.00	5.31		
Total Xylenes*	<0.150	0.150	10/09/2023	ND	6.18	103	6.00	5.62		
Total BTEx	<0.300	0.300	10/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7330	16.0	10/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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: 10/06/2023
 Reported: 10/11/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 54 @ 6 IN. (H235472-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65		
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20		
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54		
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12		
Total BTEX	<0.300	0.300	10/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	10/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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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: 10/06/2023
 Reported: 10/11/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 55 @ 6 IN. (H235472-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65	
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12	
Total BTEX	<0.300	0.300	10/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

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	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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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: 10/06/2023
 Reported: 10/11/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 2 @ 6 IN. (H235472-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65		
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20		
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54		
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12		
Total BTEX	<0.300	0.300	10/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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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: 10/06/2023
 Reported: 10/11/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 8 @ 6 IN. (H235472-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65		
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20		
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54		
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12		
Total BTEX	<0.300	0.300	10/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	10/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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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: 10/06/2023
 Reported: 10/11/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 10 @ 6 IN. (H235472-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65	
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20	
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54	
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12	
Total BTEX	<0.300	0.300	10/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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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: 10/06/2023
 Reported: 10/11/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 11 @ 6 IN. (H235472-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65		
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20		
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54		
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12		
Total BTEx	<0.300	0.300	10/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/10/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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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: 10/06/2023
 Reported: 10/11/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: FL 12 @ 6 IN. (H235472-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2023	ND	2.03	102	2.00	1.65		
Toluene*	<0.050	0.050	10/09/2023	ND	2.06	103	2.00	1.20		
Ethylbenzene*	<0.050	0.050	10/09/2023	ND	1.96	97.9	2.00	1.54		
Total Xylenes*	<0.150	0.150	10/09/2023	ND	5.85	97.4	6.00	1.12		
Total BTEX	<0.300	0.300	10/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	10/10/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2023	ND	205	102	200	6.36	
DRO >C10-C28*	<10.0	10.0	10/09/2023	ND	206	103	200	12.2	
EXT DRO >C28-C36	<10.0	10.0	10/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental				BILL TO				ANALYSIS REQUEST														
Project Manager: Joel Lowry				P.O. #:																		
Address: 2617 W Marland Blvd				Company: Solaris Midstream																		
City: Hobbs State: NM Zip: 88240				Attn: Rob Kirk																		
Phone #: 575-396-2378 Fax #: 575-396-1429				Address:																		
Project #: 15510 Project Owner: Solaris Water Midstream, LLC				City:																		
Project Name: Lobo 285 SWD Water Reuse				State: Zip:																		
Project Location: UL/ A Sec 22 T25S - R28E				Phone #:																		
Sampler Name: Dominic Casarez				Fax #:																		
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021						
H235476																						
FL 48 @ 6 in																						
FL 49 @ 6 in																						
FL 50 @ 6 in																						
FL 51 @ 6 in																						
FL 52 @ 6 in																						
FL 53 @ 6 in																						
FL 54 @ 6 in																						
FL 55 @ 6 in																						
FL 2 @ 6 in																						
FL 8 @ 6 in																						

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Relinquished By:	Date: 10-6	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 16:15	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) - S. 8:	Sample Condition	CHECKED BY:	REMARKS: Email results to pm@etechenv.com	
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input type="checkbox"/>		*customer added sample date. 8/20/23	
	<input type="checkbox"/> Yes <input type="checkbox"/> No			

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental				BILL TO				ANALYSIS REQUEST																			
Project Manager: Joel Lowry				P.O. #:																							
Address: 2617 W Marland Blvd				Company: Solaris Midstream																							
City: Hobbs		State: NM		Zip: 88240		Attn: Rob Kirk																					
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:		City: Hobbs																					
Project #: 15510		Project Owner: Solaris Water Midstream, LLC		State:		Zip:																					
Project Name: Lobo 285 SWD Water Reuse				Phone #:																							
Project Location: UL/ A Sec 22 T25S - R28E				Fax #:																							
Sampler Name: <u>Dominic Casarez</u>																											
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		G/RAB OR (COMP. #)		CONTAINERS		MATRIX		PRESERV.		SAMPLING		DATE		TIME		Chloride		TPH		BTEX 8021			
H235472		DC 11		FL 10 @ 6in		C 1				GROUNDWATER						10-6											
12		FL 11 @ 6in				C 1				WASTEWATER																	
13		FL 12 @ 6in				C 1				SOIL						↓											

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Relinquished By: <u>[Signature]</u>		Date: <u>10-6</u>		Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <u>16:15</u>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: Email results to pm@etechenv.com			
		Time:							
Delivered By: (Circle One) <u>-5-8-</u>				Sample Condition		CHECKED BY: <u>[Signature]</u>			
Sampler - UPS - Bus - Other:				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					

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



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

October 12, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 10/09/23 16:18.

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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 13 @ 6 IN. (H235496-01)

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	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	10/10/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 16 @ 6 IN. (H235496-02)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	GC-NC
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	GC-NC
Total Xylenes*	0.185	0.150	10/10/2023	ND	6.09	101	6.00	4.92	GC-NC1
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	10/10/2023	ND	432	108	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	86.2	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	1330	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	361	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 17 @ 6 IN. (H235496-03)

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	10/10/2023	ND	2.00	99.9	2.00	3.89		
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12		
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92		
Total BTEX	<0.300	0.300	10/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

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	10/10/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	13.3	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 18 @ 6 IN. (H235496-04)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	GC-NC
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	GC-NC
Total Xylenes*	0.232	0.150	10/10/2023	ND	6.09	101	6.00	4.92	GC-NC1
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 171 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	10/10/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	94.2	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	1670	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	438	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 19 @ 6 IN. (H235496-05)

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	10/10/2023	ND	2.00	99.9	2.00	3.89		
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12		
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92		
Total BTEx	<0.300	0.300	10/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	10/10/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 21 @ 6 IN. (H235496-06)

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	10/10/2023	ND	2.00	99.9	2.00	3.89		
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12		
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92		
Total BTEx	<0.300	0.300	10/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6240	16.0	10/10/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 25 @ 1 FT (H235496-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89		
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12		
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92		
Total BTEx	<0.300	0.300	10/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	10/10/2023	ND	432	108	400	3.64	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	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 26 @ 1FT (H235496-08)

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	10/10/2023	ND	2.00	99.9	2.00	3.89		
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12		
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92		
Total BTEX	<0.300	0.300	10/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	10/10/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 27 @ 1FT (H235496-09)

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	10/10/2023	ND	2.00	99.9	2.00	3.89		
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12		
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92		
Total BTEX	<0.300	0.300	10/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	10/10/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	<10.0	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 6 @ 3 IN. (H235496-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89		
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12		
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92		
Total BTEx	<0.300	0.300	10/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9330	16.0	10/10/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	294	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	71.7	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 7 @ 3 IN. (H235496-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89		
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12		
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92		
Total BTEx	<0.300	0.300	10/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/10/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	269	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	149	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NW1 (H235496-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89		
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12		
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92		
Total BTEx	<0.300	0.300	10/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	22800	16.0	10/10/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	33.8	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	15.4	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW1 (H235496-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	10/10/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	519	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	327	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW1 (H235496-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89	
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12	
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92	
Total BTEX	<0.300	0.300	10/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7730	16.0	10/10/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	26.7	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	14.6	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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Analytical Results For:

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

Received: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW2 (H235496-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89		
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12		
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92		
Total BTEx	<0.300	0.300	10/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	10/10/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	276	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	151	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW1 (H235496-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89		
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12		
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92		
Total BTEx	<0.300	0.300	10/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	10/10/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	286	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	117	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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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: 10/09/2023
 Reported: 10/12/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: EW2 (H235496-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2023	ND	2.00	99.9	2.00	3.89		
Toluene*	<0.050	0.050	10/10/2023	ND	1.99	99.7	2.00	5.12		
Ethylbenzene*	<0.050	0.050	10/10/2023	ND	2.05	102	2.00	4.50		
Total Xylenes*	<0.150	0.150	10/10/2023	ND	6.09	101	6.00	4.92		
Total BTEx	<0.300	0.300	10/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26800	16.0	10/10/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2023	ND	202	101	200	0.980	
DRO >C10-C28*	118	10.0	10/10/2023	ND	208	104	200	1.63	
EXT DRO >C28-C36	58.3	10.0	10/10/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as 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

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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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental				BILL TO				ANALYSIS REQUEST													
Project Manager: Joel Lowry				P.O. #:																	
Address: 2617 W Marland Blvd				Company: Solaris Midstream																	
City: Hobbs		State: NM		Zip: 88240		Attn: Rob Kirk															
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:		City:															
Project #: 15510		Project Owner: Solaris Water Midstream, LLC		State:		Zip:															
Project Name: Lobo 285 SWD Water Reuse				Phone #:																	
Project Location: UL/ A Sec 22 T25S - R28E				Fax #:																	
Sampler Name: Dominic Casarez																					
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		Chloride		TPH		BTX 8021			
H235496				C		1						10-9		✓		✓		✓			
1		FL 13 @ 6 in																			
2		FL 16 @ 6 in																			
3		FL 17 @ 6 in																			
4		FL 18 @ 6 in																			
5		FL 19 @ 6 in																			
6		FL 21 @ 6 in																			
7		FL 25 @ 1 ft																			
8		FL 26 @ 1 ft																			
9		FL 27 @ 1 ft																			
10		FL 6 @ 3 in																			

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Relinquished By:	Date: 10-9-23	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 16:18		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email results to pm@etechenv.com	
Delivered By: (Circle One)	Time:			
Sampler - UPS - Bus - Other:		Sample Condition		
		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		
		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		
		CHECKED BY: (Initials)		

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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



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

October 19, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 10/13/23 16:18.

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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 96 @ 3 IN. (H235612-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17	
Total BTEX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	10/16/2023	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	10/15/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/15/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/15/2023	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 97 @ 3 IN. (H235612-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17	
Total BTEX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	10/16/2023	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	10/15/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/15/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/15/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 98 @ 3 IN. (H235612-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34		
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	10/16/2023	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	10/15/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/15/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/15/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 99 @ 3 IN. (H235612-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34	
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17	
Total BTEX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/16/2023	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	10/15/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/15/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/15/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 100 @ 3 IN. (H235612-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34		
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/16/2023	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	10/15/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/15/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/15/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 101 @ 3 IN. (H235612-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34		
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17		
Total BTX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	10/16/2023	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	10/15/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	56.6	10.0	10/15/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/15/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 102 @ 3 IN. (H235612-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34		
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/16/2023	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	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 103 @ 3 IN. (H235612-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34		
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	10/16/2023	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	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 104 @ 3 IN. (H235612-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.98	99.1	2.00	3.34		
Toluene*	<0.050	0.050	10/16/2023	ND	1.92	96.1	2.00	5.49		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.99	99.5	2.00	3.27		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.82	97.0	6.00	5.17		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	10/16/2023	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	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 105 @ 3 IN. (H235612-10)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43		
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02		
Total BTX	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	10/16/2023	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	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 106 @ 3 IN. (H235612-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43		
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02		
Total BTEX	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/16/2023	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	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 107 @ 3 IN. (H235612-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43		
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02		
Total BTEX	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/16/2023	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	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 108 @ 3 IN. (H235612-13)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43		
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02		
Total BTX	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	10/16/2023	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	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 109 @ 3 IN. (H235612-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43		
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02		
Total BTEX	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/16/2023	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	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 16 @ 1 FT. (H235612-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43		
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02		
Total BTEx	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	10/16/2023	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	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	17.7	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 18 @ 1 FT. (H235612-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43		
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02		
Total BTEx	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	10/16/2023	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	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	46.5	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	16.5	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 1 B (H235612-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43		
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02		
Total BTEx	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	10/16/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	15.7	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 67.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.7 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 2 B (H235612-18)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2023	ND	1.85	92.6	2.00	2.43	
Toluene*	<0.050	0.050	10/17/2023	ND	1.93	96.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.96	97.9	2.00	3.07	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.85	97.5	6.00	2.02	
Total BTEx	<0.300	0.300	10/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	10/16/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	195	97.3	200	0.415	
DRO >C10-C28*	23.7	10.0	10/16/2023	ND	190	95.1	200	1.74	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "C. 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 21 of 22

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																				
Project Manager:				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> <div>TPH Rush 24 hr</div> </div>																				
Address: 2617 West Marland				Company																								
City: Hobbs State: NM Zip: 88240				Attn:																								
Phone #: (575) 264-9884 Fax #:				Address:																								
Project #: Project Owner: * 8610-13-23				City:																								
Project Name: Lobo 285 SWD water reuse				State: Zip:																								
Project Location:				Phone #:																								
Sampler Name: Dominic Casare 2				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														
H235612																												
DC 1	FL 96 @ 3 in	C	1			✓							10-13		✓	✓	✓	✓										
2	FL 97 @ 3 in																											
3	FL 98 @ 3 in																											
4	FL 99 @ 3 in																											
5	FL 100 @ 3 in																											
6	FL 101 @ 3 in																											
7	FL 102 @ 3 in																											
8	FL 103 @ 3 in																											
9	FL 104 @ 3 in																											
10	FL 105 @ 3 in																											

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Relinquished By:	Date: 10-13	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	#140	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: - 1.1c		Cool Intact	10-13-23	
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

REMARKS: Xcustomer added project name. 10-13-23

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

FORM-006
Revision 1.0

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental				BILL TO				ANALYSIS REQUEST																
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Rush TPH 24 hr</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Rush Chloride 24 hr</div> </div>																
Address: 3100 Plains Hwy				Company: Solar Midstream																				
City: Lovington		State: NM		Zip: 88260		Attn: Rob Kirk																		
Phone #: 575-396-2378		Fax #: 575-396-1429		Address:		City:																		
Project #: 15510		Project Owner: Solaris water midstream, LLC		State: NM		Zip:																		
Project Name: Lobo 285 SWD Water Reuse				Phone #:																				
Project Location: Rural Eddy				Fax #:																				
Sampler Name: Dominil Casarez																								
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	GIRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SEDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH	BTEX 8021							
H235612													10	15	✓	✓	✓							
DC 11	FL106 @ 9 in	C	1			✓					✓				✓	✓	✓							
12	FL107 @ 2 in														✓	✓	✓							
13	FL108 @ 2 in														✓	✓	✓							
14	FL109 @ 9 in														✓	✓	✓							
15	FL16 @ 1 ft														✓	✓	✓							
16	FL18 @ 1 ft														✓	✓	✓							
17	NW1 B														✓	✓	✓							
18	EW2 B														✓	✓	✓							

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Relinquished By:	Date: 10-13	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1618		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email results to pm@etechenv.com	
	Time:			
Delivered By: (Circle One)	#140	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: -1.1°C		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

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



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

October 19, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LOBO 285 SWD WATER REUSE

Enclosed are the results of analyses for samples received by the laboratory on 10/13/23 16:18.

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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: NW3 (H235617-01)

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	10/17/2023	ND	1.93	96.4	2.00	0.735		
Toluene*	<0.050	0.050	10/17/2023	ND	1.99	99.7	2.00	0.757		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	2.13	106	2.00	0.320		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	6.38	106	6.00	0.531		
Total BTEX	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	10/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	185	92.6	200	0.789	
DRO >C10-C28*	71.6	10.0	10/16/2023	ND	163	81.6	200	0.856	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 68.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.5 % 49.1-148

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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW3 (H235617-02)

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	10/17/2023	ND	1.93	96.4	2.00	0.735		
Toluene*	<0.050	0.050	10/17/2023	ND	1.99	99.7	2.00	0.757		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	2.13	106	2.00	0.320		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	6.38	106	6.00	0.531		
Total BTEx	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/16/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	185	92.6	200	0.789	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	163	81.6	200	0.856	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 60.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 51.3 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW4 (H235617-03)

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	10/16/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/16/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.83	97.1	6.00	1.97		
Total BTX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	10/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	185	92.6	200	0.789	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	163	81.6	200	0.856	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 66.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.9 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: WW5 (H235617-04)

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	10/17/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/17/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.83	97.1	6.00	1.97		
Total BTEx	<0.300	0.300	10/17/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

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	10/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	185	92.6	200	0.789	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	163	81.6	200	0.856	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.8 % 49.1-148

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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: 10/13/2023
 Reported: 10/19/2023
 Project Name: LOBO 285 SWD WATER REUSE
 Project Number: 15510
 Project Location: SOLARIS UL / A SEC 22 T25S - R28E

Sampling Date: 10/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW2 (H235617-05)

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	10/17/2023	ND	1.89	94.7	2.00	3.05	
Toluene*	<0.050	0.050	10/17/2023	ND	1.85	92.3	2.00	0.978	
Ethylbenzene*	<0.050	0.050	10/17/2023	ND	1.94	97.1	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/17/2023	ND	5.83	97.1	6.00	1.97	
Total BTEX	<0.300	0.300	10/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	185	92.6	200	0.789	
DRO >C10-C28*	83.1	10.0	10/16/2023	ND	163	81.6	200	0.856	
EXT DRO >C28-C36	47.6	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 64.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 55.7 % 49.1-148

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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


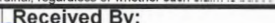



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental						BILL TO				ANALYSIS REQUEST														
Project Manager: Joel Lowry						P.O. #:																		
Address: 3100 Plains Hwy						Company: Solar Midstream																		
City: Lovington		State: NM		Zip: 88260		Attn: Rob Kirk																		
Phone #: 575-396-2378		Fax #: 575-396-1429				Address:																		
Project #: 15510		Project Owner: Solaris water midstream, LLC				City:																		
Project Name: Lobo 285 SWD Water Reuse						State: NM Zip:																		
Project Location: Rural Eddy						Phone #:																		
Sampler Name: Dominic Casarez						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	Chloride	TPH	BTEX 8021							
DC 1	NW3	C	1			✓				✓			10-13		✓	✓	✓	TPH RUSH 24hr						
2	SW3	↓	↓			↓				↓					↓	↓	↓							
3	WW4	↓	↓			↓				↓					↓	↓	↓							
4	WWS	↓	↓			↓				↓					↓	↓	↓							
5	SW2	↓	↓			↓				↓					↓	↓	↓							

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Relinquished By: 		Date: 10-18-13		Received By: 		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
Time: 16:18						Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: Email results to pm@etechenv.com			
		Time:							
Delivered By: (Circle One)		-1.1		Sample Condition		CHECKED BY: (initials)			
Sampler - UPS - Bus - Other:				Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
									

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

Appendix F

Regulatory Correspondence

From: [Wells, Shelly, EMNRD](#)
To: [Tamarah Kendrick](#); eco@slo.state.nm.us; [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Cc: [Joel Lowry](#); [Lance Crenshaw](#); [Ben Arguijo](#); [Rob Kirk](#); [Eddie Gaytan, Jr](#)
Subject: RE: [EXTERNAL] nAPP2221532955 – Lobo 285 Frac Tank Overflow - Sampling Notification - Solaris Water Midstream, LLC
Date: Monday, October 16, 2023 4:17:00 PM
Attachments: [image001.png](#)

Some people who received this message don't often get email from shelly.wells@emnrd.nm.gov. [Learn why this is important](#)

Hi Tamarah,

The OCD has received your notification. 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.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Tamarah Kendrick <tamarah@etechenv.com>
Sent: Monday, October 16, 2023 2:16 PM
To: eco@slo.state.nm.us; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Joel Lowry <joel@etechenv.com>; Lance Crenshaw <lance@etechenv.com>; Ben Arguijo <bena@etechenv.com>; Rob Kirk <rob.kirk@ariswater.com>; Eddie Gaytan, Jr <eddiejr@etechenv.com>
Subject: [EXTERNAL] nAPP2221532955 – Lobo 285 Frac Tank Overflow - Sampling Notification - Solaris Water Midstream, LLC

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

This email serves as notice Etech intends to begin confirmation sampling for the following reportable release site beginning 10/19/2023.

nAPP2221532955 – Lobo 285 Frac Tank Overflow

Anticipated sampling time will be at 7:00 AM.

Confirmation sampling will continue throughout the remediation process as required and/or necessary.

If you have any questions or need any additional information, please feel free to contact Joel Lowry by phone or email:

Joel Lowry
Etech Environmental
Phone: 432-466-4450
joel@etechenv.com

Tamarah Kendrick

Project Coordinator

Etech - Environmental and Safety Solutions

2617 W. Marland Blvd

Hobbs, NM 88240



From: [Joel Lowry](#)
To: [Knight, Tami C.](#)
Cc: [Tamarah Kendrick](#); [Lance Crenshaw](#); [Ben Arguijo](#); [Rob Kirk](#); [Eddie Gaytan, Jr](#)
Subject: Re: nAPP2221532955 – Lobo 285 Frac Tank Overflow - Sampling Notification - Solaris Water Midstream, LLC
Date: Thursday, October 19, 2023 10:32:51 AM
Attachments: [Image006.png](#)

Yes, Ma'am. The Northeast Corner of Lobo 285 Water Reuse and the western terminus of the Lobo Frac Tank Overflow overlap a little bit. The Lobo 285 Water Reuse occurred at the facility. The Lobo 285 Frac Tank Overflow occurred at the SWD Well Pad, east of the facility.

Respectfully,

Joel W Lowry
Etech Environmental & Safety

On Oct 19, 2023, at 10:22 AM, Knight, Tami C. <tknight@slo.state.nm.us> wrote:

Good Morning

Thank you for the notification. Does this work overlap with NAPP2135135752 at all?

PLEASE SUBMIT WORKPLANS AND REPORTS TO ECO@SLO.STATE.NM.US

<!--[if !vml]-->
<image003.jpg>
<!--[endif]--><!--[if !vml]--><!--[endif]-->**Tami Knight, CHMM**

Environmental Specialist
SRD-Environmental
Compliance Office (ECO)
505.670.1638
New Mexico State Land Office
1300 W. Broadway Avenue, Suite A
Bloomfield, NM 87413
tknight@slo.state.nm.us
nmstatelands.org
.....

[<image005.jpg>](#)

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From: Tamarah Kendrick <tamarah@etechenv.com>
Sent: Monday, October 16, 2023 2:16 PM
To: SLO Spills <spills@slo.state.nm.us>; ocd.enviro@state.nm.us
Cc: Joel Lowry <joel@etechenv.com>; Lance Crenshaw <lance@etechenv.com>; Ben Arguijo <bena@etechenv.com>; Rob Kirk <rob.kirk@ariswater.com>; Eddie Gaytan, Jr <eddiejr@etechenv.com>
Subject: [EXTERNAL] nAPP2221532955 – Lobo 285 Frac Tank Overflow - Sampling Notification - Solaris Water Midstream, LLC

This email serves as notice Etech intends to begin confirmation sampling for the following reportable release site beginning 10/19/2023.

nAPP2221532955 – Lobo 285 Frac Tank Overflow

Anticipated sampling time will be at 7:00 AM.

Confirmation sampling will continue throughout the remediation process as required and/or necessary.

If you have any questions or need any additional information, please feel free to contact Joel Lowry by phone or email:

Joel Lowry
Etech Environmental
Phone: 432-466-4450
joel@etechenv.com

Tamarah Kendrick
Project Coordinator
ETech - Environmental and Safety Solutions
2617 W. Marland Blvd
Hobbs, NM 88240
<image006.png>

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 409055

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 409055
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2221532955
Incident Name	NAPP2221532955 LOBO 285 SWD @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAB1915134627] LOBO 285 SWD

Location of Release Source

Please answer all the questions in this group.

Site Name	LOBO 285 SWD
Date Release Discovered	08/02/2022
Surface Owner	State

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Frac Tank Produced Water Released: 120 BBL Recovered: 25 BBL Lost: 95 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 409055

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 409055
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Julian Romero Title: Environmental Advisor Email: julian.romero@ariswater.com Date: 12/05/2024
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 409055

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:
	371643
	Action Number:
	409055
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	26800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	52100
GRO+DRO (EPA SW-846 Method 8015M)	41500
BTEX (EPA SW-846 Method 8021B or 8260B)	2.4
Benzene (EPA SW-846 Method 8021B or 8260B)	412

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

On what estimated date will the remediation commence	09/27/2023
On what date will (or did) the final sampling or liner inspection occur	11/08/2023
On what date will (or was) the remediation complete(d)	11/08/2023
What is the estimated surface area (in square feet) that will be reclaimed	16000
What is the estimated volume (in cubic yards) that will be reclaimed	563
What is the estimated surface area (in square feet) that will be remediated	16000
What is the estimated volume (in cubic yards) that will be remediated	563

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

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

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QUESTIONS, Page 4

Action 409055

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 409055
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Julian Romero Title: Environmental Advisor Email: julian.romero@ariswater.com Date: 12/05/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 409055

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 409055
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 409055

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:
	371643
	Action Number:
	409055
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	298160
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/27/2023
What was the (estimated) number of samples that were to be gathered	124
What was the sampling surface area in square feet	16000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	16000
What was the total volume (cubic yards) remediated	563
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	16000
What was the total volume (in cubic yards) reclaimed	563
Summarize any additional remediation activities not included by answers (above)	On September 27, 2023, remediation activities commenced at the Lobo 285 Frac Tank Overflow release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The floor and sidewalls of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria. Representative five-point composite confirmation soil samples were collected every 200 square feet from the floor and sidewalls of the excavated area to be submitted for laboratory analysis.

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

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

I hereby agree and sign off to the above statement	Name: Julian Romero Title: Environmental Advisor Email: julian.romero@ariswater.com Date: 12/05/2024
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QUESTIONS, Page 7

Action 409055

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 409055
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 409055

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 409055
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2221532955, thank you. This Remediation Closure Report is approved. Please be advised that step-out sampling locations on pad that define the edge of the release will create the outline of the area that will need to be sampled for reclamation. The larger the step-out, the larger the eventual reclamation area that will need be to be sampled once the pad is abandoned and turned back to "land no longer in use." The reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division.	4/29/2025